

19991104.qrp v01\_n629.qrl.991104

Date: Thu, 4 Nov 1999 19:03:07 EST

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 1629

QRP-L Digest 1629

Topics covered in this issue include:

- 1) [55116] What gives with QRP-L  
by "Bruce" <Bruce2@prodigy.net>
- 2) [55117] Help-need drill for hire(zm-2 front panel...)  
by "The Hansons" <hansfam@midcoast.com>
- 3) [55118] Re: FOX: Hunt for fox W0MC tonight!  
by "Jerry McCollom W0MC" <w0mc@hotmail.com>
- 4) [55119] FOX hunt how to  
by <SFIKE@twa.com>
- 5) [55120] Re: 1-V challenge  
by Jeff Furman <jfurman@ocs.net>
- 6) [55121] HB: solder type ID please  
by PDouglas12@aol.com
- 7) [55122] Magnifier Lamp  
by "Hugh Matheson" <hugh@dim.com>
- 8) [55123] Thanks...Drilling request  
by "The Hansons" <hansfam@midcoast.com>
- 9) [55124] QRP/M mWatts  
by Larry Cahoon <wd3p@juno.com>
- 10) [55125] test  
by "Jerry Scherkenbach" <jerrys@execpc.com>
- 11) [55126] FOX: Mr Foxy like tuna  
by "Rod Cerkoney" <rlc@frie.com>
- 12) [55127] Re: Thanks...Drilling request  
by Brian Murrey <brian@iquest.net>
- 13) [55128] Enclosures  
by "Kory Hamzeh" <kory@avatar.com>
- 14) [55129] GelCell Chargers???
- by maprath@prairienet.org (Mark A. Prather)
- 15) [55130] ELMER300: 2N2/15 Design Update #1  
by "Jim Kortge, K8IQY" <jokortge@prodigy.net>
- 16) [55131] Re: Enclosures  
by "John J. McDonough" <jjmcd@tm.net>
- 17) [55132] ww4ml struck out in mudville  
by "The One and Only!" <mitch96@pobox.com>
- 18) [55133] Re: ww4ml struck out in mudville  
by "Richard Matthews" <prm@hiwaay.net>
- 19) [55134] Re: FOX: Hunt for fox W0MC tonight!

by K1JD@aol.com

20) [55135] HB & MANHATT - first time to try it  
by n5ib@juno.com

21) [55136] RE: LIST (See, I'm trying to behave)  
by "T.J. \"SKIP\" Arey N2EI" <tjarey@home.com>

22) [55137] Just a Reminder/ non radio related  
by RangerSF5@aol.com

23) [55138] NT+ Fox -- Start Time Correction for Thursday Nite (Local) - Fox will  
START at 0230Z -- K6JMB -  
by "jmb" <jmb@cruzio.com>

24) [55139] Re: ww4ml struck out in mudville  
by Macstein@aol.com

25) [55140] OP: Zombie, ARRL TT2  
by Joel Malman <malman@world.std.com>

26) [55141] Xtal-set radio  
by <SFIKE@twa.com>

27) [55142] FOX: WOMC  
by "Jerry McCollom WOMC" <w0mc@hotmail.com>

28) [55143] Re: 1-V challenge thoughts  
by Wayne Burdick <n6kr@elecraft.com>

29) [55144] Fox in FL  
by w2xn@juno.com

30) [55145] Re: NILS: Hey, I'm an action figure!  
by "Mike =?ISO-8859-1?Q?N=D8WDM"?= <michaelbstjames@email.msn.com>

31) [55146] RE: LIST (See, I'm trying to behave)  
by Pete Burbank <plburbank@kih.net>

32) [55147] Re: Xtal-set radio  
by Dave Sjolin <sjolin@swbell.net>

33) [55148] Fox...Yesssss  
by "Floyd Smithberg" <flydnq7x@primenet.com>

34) [55149] 100Mw to LZ2RS  
by "Kelly Ellison" <kelman@dialnet.net>

35) [55150] Momma Fox: FOX hunt how to  
by "Paul R. Valko" <prvalko@oakland.edu>

36) [55151] Re: solder type ID please  
by "Radman" <radman@best.com>

37) [55152] Re: Xtal-set radio  
by Jim <w7ls@blarg.net>

38) [55153] RE: ELMER300: 2N2/15 Design Lightoff  
by "Sly (9M8SL)" <cqsly@tm.net.my>

39) [55154] Re: FOX: Hunt for fox WOMC tonight!  
by K1JD@aol.com

40) [55155] Re: FOX: Hunt for fox WOMC tonight!  
by Tom Palmer <n1tp@worldnet.att.net>

41) [55156] Red Hot 40 - Now Available  
by Dave Fifield <fifield@pacbell.net>

42) [55157] Politician Wind.... wire / rope antennas  
by hamjoel@juno.com

- 43) [55158] F/S qrp etc.  
by K4NK@aol.com
- 44) [55159] Re: Xtal-set radio  
by "Mike Yetsko" <myetsko@insydesw.com>
- 45) [55160] Re: Magnifier Lamp  
by af852@rgfn.epcc.edu (William R Colbert)
- 46) [55161] CT-9 software.K0FRP  
by "al dawkins" <alk0frp@earthlink.net>
- 47) [55162] Re: Red Hot 40 - Now Available  
by "Steve Yates, AA5TB" <aa5tb@swbell.net>
- 48) [55163] Re: ELMER300: 2N2/15 Design Lightoff  
by David Hinerman <dlh1009@ritvax.isc.rit.edu>
- 49) [55164] RE: Red Hot 40 - Now Available  
by "Everhart, Joseph @ CSE" <jeverhar@mail.cse.1-3com.com>
- 50) [55165] rigs sold  
by K4NK@aol.com
- 51) [55166] Re: Xtal-set radio  
by "Cla KA0GKC" <ka0gkc@arrl.net>
- 52) [55167] XCVR: NC40A mods  
by Allan G Taylor <k7gt@arrl.net>
- 53) [55168] FOX:I winged em but he got away  
by Bcieslak@ra.rockwell.com
- 54) [55169] AR QRP 40m Net Results  
by Robsparks@aol.com
- 55) [55170] Fox:Chronicle du jour  
by Ed Loranger <we6w@qsl.net>
- 56) [55171] CLUB: New Clubhouse Editor  
by Jim Stafford <w4qo@amsat.org>
- 57) [55172] LIST: Topics list online  
by Jim Stafford <w4qo@amsat.org>
- 58) [55173] Re: Red Hot 40 - Now Available  
by dave\_epps@juno.com
- 59) [55174] ELMER100:"Free" ElmeRadio  
by Bruce Kizerian <kizerian@ced.utah.edu>
- 60) [55175] Re: LIST: Topics list online  
by "Steve Sorrell" <ap036@detroit.freenet.org>
- 61) [55176] AR QRP 40m Net Results  
by PDouglas12@aol.com
- 62) [55177] QRP2001 team seek PCB designer to help with project, must like beer,  
cake with apples in it and coffee.  
by "Stephen Farthing" <stephen@stevef.demon.co.uk>
- 63) [55178] ELMER100: Ham Radio Horizons Magazine  
by "Randy Jouett" <rules@bellsouth.net>
- 64) [55179] Trade  
by tom whalen <wb5qyt@eFortress.com>
- 65) [55180] Re: ELMER100: Ham Radio Horizons Magazine  
by Dave Sjolin <sjolin@swbell.net>
- 66) [55181] Re: ELMER100:"Free" ElmeRadio

- by "Steven Weber" <kd1jv@moose.ncia.net>
- 67) [55182] LC Phasing, Auto-Tuning, and Stepper Motors  
by "Randy Jouett" <rules@bellsouth.net>
- 68) [55183] HELP: on output impedance of 1 v. oscillator.  
by "Robert W. Shaw" <lycott@fox.nstn.ca>
- 69) [55184] newbie power supply question  
by GUARDM@aol.com
- 70) [55185] RE: Chronicle du jour  
by Mike Gipe <mgipe@reliablemeters.com>
- 71) [55186] PICS:  
by "Scott, Gary" <gary.scott@bellhowell.infolearning.com>
- 72) [55187] RE: Newbie pwr supply  
by tom whalen <wb5qyt@eFortress.com>
- 73) [55188] Re: solder type ID please  
by Gary L Surrency <gsurrency@juno.com>
- 74) [55189] Re: XCVR: NC40A mods (long)  
by Gary L Surrency <gsurrency@juno.com>
- 75) [55190] QRP2000 web site URL correction  
by "Stephen Farthing" <stephen@stevef.demon.co.uk>
- 76) [55191] Solder wick info  
by tom whalen <wb5qyt@eFortress.com>
- 77) [55192] FOX: <Drum roll> The FOX Log!  
by "Jerry McCollom W0MC" <w0mc@hotmail.com>
- 78) [55193] Re: newbie power supply question  
by Monte Stark <ku7y@dri.edu>
- 79) [55194] Re: ELMER100: Ham Radio Horizons Magazine  
by "Randy Jouett" <rules@bellsouth.net>
- 80) [55195] Solder wick info  
by Ed Loranger <we6w@qsl.net>
- 81) [55196] Xtal-set radio  
by <SFIKE@twa.com>
- 82) [55197] RE: Solder wick info  
by "Kevin Muenzler WB5RUE" <wb5rue@stic.net>
- 83) [55198] Re: ELMER100: Ham Radio Horizons Magazine  
by "Ian C. Purdie VK2TIP" <ianpurdie@integritynet.com.au>
- 84) [55199] HB: 1 V challenge  
by "Steven Weber" <kd1jv@moose.ncia.net>
- 85) [55200] Prop:Thailand.Query  
by Pete Burbank <plburbank@kih.net>
- 86) [55201] re:HELP: on output impedance of 1 v. oscillator.  
by "Robert W. Shaw" <lycott@fox.nstn.ca>
- 87) [55202] Part Question  
by "Ron Polityka" <wb3aal@talon.net>
- 88) [55203] Re: FOX:I winged em but he got away  
by Tom Palmer <n1tp@worldnet.att.net>
- 89) [55204] Re: FOX:I winged em but he got away  
by Tom Palmer <n1tp@worldnet.att.net>
- 90) [55205] RE: Solder wick info

- by "Ed Tanton" <n4xy@att.net>
- 91) [55206] Re: Part Question  
by neil <neil@aade.com>
- 92) [55207] Results of the NOVEMBER SPARTAN SPRINT  
by Russ Carpenter <russ@natworld.com>
- 93) [55208] RE: Solder wick info-oops  
by "Ed Tanton" <n4xy@att.net>
- 94) [55209] 12th Homebrew and Oldtime Contest  
by Michael <mike\_mhe@compuserve.com>
- 95) [55210] NT+ Fox -- Sked for next three nites: Tonight (Thursday), Friday and Saturday -- K6JMB  
by "jmb" <jmb@cruzio.com>
- 96) [55211] sub-1V Audio Amp  
by Stanley A McIntosh <mcintos@basf-corp.com>
- 97) [55212] Re: ELMER100: Ham Radio Horizons Magazine  
by Dave Sjolin <sjolin@swbell.net>
- 98) [55213] FS: Mint Atlas 110 transceiver  
by "Bill Legge, NT1R" <wlegge1@maine.rr.com>
- 99) [55214] Re: ELMER100:"Free" ElmeRadio  
by BenNW7DX@aol.com
- 100) [55215] Power Inverters and Battery Supplies  
by Richard Arland <k7sz@epix.net>
- 101) [55216] Sending and Receiving QSL cards.  
by "Carl Zmola" <zmola@campbellsci.com>
- 102) [55217] HB: 1 V challenge, tricks  
by "Steven Weber" <kd1jv@moose.ncia.net>

-----

Date: Wed, 3 Nov 1999 16:06:57 -0800  
From: "Bruce" <Bruce2@prodigy.net>  
To: <QRP-L@lehigh.edu>  
Subject: [55116] What gives with QRP-L  
Message-ID: <000901bf2658\$87a24740\$a2809cd1@default>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

What is the deal with the QRP-L web page?  
It is gone and when trying to sending mail to the listserver at lehigh.edu I  
get a message that says the server is turned off.

-----

Date: Wed, 3 Nov 1999 20:09:05 -0500  
From: "The Hansons" <hansfam@midcoast.com>

To: <QRP-1@lehigh.edu>  
Subject: [55117] Help-need drill for hire(zm-2 front panel...)  
Message-ID: <000d01bf2661\$7be435e0\$0ee51ace@hansfam>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I am an absolute newbie at kit building. Just received  
ZM-2 kit. Think I can handle the wiring, but am not set  
up to drill the front panel. Looking for someone to drill  
out front panel. I will send panel, pattern, and required  
amount of money for service.  
Many thanks.

Steve KE1LG   hansfam@midcoast.com

-----  
Date: Wed, 03 Nov 1999 18:28:05 MST  
From: "Jerry McCollom W0MC" <w0mc@hotmail.com>  
To: qrp-1@Lehigh.EDU  
Subject: [55118] Re: FOX: Hunt for fox W0MC tonight!  
Message-ID: <19991104012805.36003.qmail@hotmail.com>  
Mime-Version: 1.0  
Content-Type: text/plain; format=flowed

Hi Folks,

Some late breaking details I left out of my earlier post!

My location: Fort Collins, CO 80525  
My Antenna: Doublet, oriented NW/SE with 25' legs on the SE  
and NW sides of my house. It is under the eaves  
on the NE side of the house.  
Rig: K2 #176, 5Watts  
Headphones: Sony NC-20 (not the rig :-) Noise-Cancelling  
(so I should still be able to copy when the furnace  
kicks on :-)

Let the hunt begin in 30 minutes or so -- see you there!  
(gulp!)

72,  
Jerry  
W0MC

-----  
Get Your Private, Free Email at <http://www.hotmail.com>

-----  
Date: 3 Nov 1999 19:32:00 LOC  
From: <SFIKE@twa.com>  
To: <qrp-1@lehigh.edu>  
Subject: [55119] FOX hunt how to  
Message-ID: <19991103.193200.SFIKE@twa.com>

Still being relatively new to QRP, (and amateur radio for that matter!) could somebody please explain to me how a "FOX hunt" works?

thanks!

72

Scott, KCOBUS

-----  
Date: Wed, 3 Nov 1999 17:36:41 -0800 (PST)  
From: Jeff Furman <jfurman@ocs.net>  
To: kd1jv@moose.ncia.net  
Cc: qrp-1@lehigh.edu  
Subject: [55120] Re: 1-V challenge  
Message-ID: <Pine.LNX.4.04.9911031733410.1852-100000@ocs.net>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Steve, don't forget that the impedance transformation of a transformer varies as the square of the turns ratio, so that a 100:1 impedance ratio requires a 10:1 turns ratio, this is do-able-- think about the transformers in the directional wattmeters we build.  
73, Jeff KD6MNP

-----  
Date: Wed, 3 Nov 1999 20:54:54 EST  
From: PDouglas12@aol.com  
To: qrp-1@lehigh.edu  
Subject: [55121] HB: solder type ID please  
Message-ID: <0.c8474373.2552416e@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Content-Transfer-Encoding: 7bit

Hi gang,

I have a dumb question. It wouldn't be dumb if I'd asked it before I built several valuable kits with it, but it is now. I have a couple of pounds of Kester rosin core solder which is clearly 63/37 tin to lead, core #66, and designated QQS571E and WRMAP3 and flux "282". NB one roll is QQS571F as well. The Kester website doesn't list the 282 core. They have a 285 core now.

The questions are: 1. Is this stuff RMA type, mildly activated rosin core solder? and more important 2. Is this stuff non corrosive, so it doesn't have to be scrubbed off in an industrial process like a car wash? Generally, I leave neatly soldered boards alone, without making them neat with solvents--which solvents I don't lile in my asthmatic lungs in the first place. What say guys? Do I have to tear open all my kits to see if they are corroding to compost?

Thanks for the help.

72,

Preston WJ2V, Long Is., NY

-----  
Date: Wed, 3 Nov 1999 20:06:17 -0700  
From: "Hugh Matheson" <hugh@dim.com>  
To: <qrp-1@Lehigh.EDU>  
Subject: [55122] Magnifier Lamp  
Message-ID: <003001bf2671\$91bff6a0\$50037cce@default>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

After using a visor magnifier for some time, my tired eyes need a change. Recommendations and sources for a magnifier lamp would be appreciated.

Hugh K0QD

-----  
Date: Wed, 3 Nov 1999 21:11:19 -0500



From: "The Hansons" <hansfam@midcoast.com>  
To: <QRP-1@Lehigh.edu>  
Subject: [55123] Thanks...Drilling request  
Message-ID: <003801bf2669\$e336bc60\$15e51ace@hansfam>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Many many thanks to all who replied to my  
drilling request-I was inundated with offers-  
they are still coming in.QRP folks are really  
great.

Steve KE1LG

-----  
Date: Thu, 4 Nov 1999 02:15:50 +0000  
From: Larry Cahoon <wd3p@juno.com>  
To: qrp-1@Lehigh.EDU  
Subject: [55124] QRP/M mWatts  
Message-ID: <19991104.021643.14406.1.wd3p@juno.com>

Had a bit of fun the this week running QRP/M. Best was tonight when I  
caught Claude, W9CL, turning into his driveway. I heard him signing  
/QRP/M so I had to try him. We made it an had a fun QSO turned out we  
were both running the SST, him at 2 Watts and mine at 900 mWatts. Makes  
for fun time.

So far this week I have QRP/M worked IL, TX, TN, AZ, and CO with the SST  
at the 900 mWatts. This thing can get out. For those who must know the  
antenna for this is the perth and we were on 20 meters.

72 de Larry.....WD3P in MD

-----  
Get the Internet just the way you want it.  
Free software, free e-mail, and free Internet access for a month!  
Try Juno Web: <http://dl.www.juno.com/dynoget/tagj>.

-----  
Date: Thu, 4 Nov 1999 01:19:29 -0600  
From: "Jerry Scherkenbach" <jerrys@execpc.com>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [55125] test

Message-ID: <002b01bf2694\$efcd7ce0\$9889cfa9@Pjerrys>

just testing without MIME format turned on

-----  
Date: Wed, 3 Nov 1999 20:09:59 -0700  
From: "Rod Cercone" <rlc@frii.com>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [55126] FOX: Mr Foxy like tuna  
Message-ID: <001d01bf2673\$26f2bcc0\$3c8611d8@compaq>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Bagged Jerry with my TT2! (We only live about 1/2 from each other.)

I have to asked him about this 597 report, I was running the TT2 from  
a Gel Cell.

---  
72/3 Rod, NØRC -- Fort Collins, CO -- FOX COUNTRY ;-)

-----  
Date: Wed, 03 Nov 1999 22:14:14 -0500  
From: Brian Murrey <brian@iquest.net>  
To: hansfam@midcoast.com  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [55127] Re: Thanks...Drilling request  
Message-ID: <3820FA06.D968EAE@iquest.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Steve...you ain't just whistlin dixie. Don't ask for something here  
unless you want it...in the morning! These elmers don't mess around!

72

The Hansons wrote:

>

> Many many thanks to all who replied to my  
> drilling request-I was inundated with offers-  
> they are still coming in.QRP folks are really  
> great.  
>  
> Steve KE1LG

--

=====  
KB9BVN -NORCAL #2792 FISTS #5695 QRP-L #1540  
39.558 N 86.095 W Johnson Co., Indiana  
GRID: EM69WN - NORCAL 40A - Attic Dipole - 1.5w  
Proud to be a member of the American Radio Relay League  
Foxhunting Team UNDERDOG - Underdog #4  
FISTS Century Club #764 - FISTS QRP Century Club #24  
=====

-----  
Date: Wed, 3 Nov 1999 19:31:13 -0800  
From: "Kory Hamzeh" <kory@avatar.com>  
To: <qrp-1@lehigh.edu>  
Subject: [55128] Enclosures  
Message-ID: <003e01bf2675\$0b5aea80\$14ce21c7@tomcat.avatar.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Hi All,

I've started on my 2n2/40, but I'm making the PCB slightly larger (about 6 x 7 instead of 5 x 7), because I'm adding the tick chip and the a 10 watt final. Believe it or not, I can not find an enclosure to fit the PCB and leave enough room for the front panel and back panel controls. Radio Shack (and others) have a 8 x 6 x 3 cabinet, but I need something a little larger (maybe 8 x 7 or 9 x 7 ). I've checked the Radio Shack, Tech America, Mouser, Digi-Key, MPJA with no luck.

Any leads here would be nice. I'm looking for a high quality, nice looking enclosure.

73,  
Kory  
AC6RN

-----  
Date: Wed, 3 Nov 1999 21:34:17 -0600 (CST)  
From: maprath@prairienet.org (Mark A. Prather)  
To: qrp-l@Lehigh.edu  
Subject: [55129] GelCell Chargers???  
Message-ID: <199911040334.VAA14863@bluestem.prairienet.org>

I know that this was a thread a while back... And, I should have been paying more attention....

I am looking for input on 'smart' gel-cell chargers... Pros and Cons of various models, best models, etc etc... I would appreciate any comments that you might have. Please reply directly to me...

73,

Mark  
WB9HFK

--

\* Mark A. Prather - WB9HFK           \* maprath@prairienet.org \*  
\* QRP-L # 1159 \* QRP ARCI # 9472 \* mprather@halcomm.com   \*  
\* Norcal # 2507   \*

-----  
Date: Wed, 03 Nov 1999 22:38:27 -0500  
From: "Jim Kortge, K8IQY" <jokortge@prodigy.net>  
To: qrp-l@lehigh.edu  
Subject: [55130] ELMER300: 2N2/15 Design Update #1  
Message-ID: <3.0.1.32.19991103223827.01342d9c@pop.prodigy.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Gang...based on some feedback, I've revised the 2N2/15 design some.

I've also added block diagrams for a "first cut" of the receive and transmit strips.

The URL is: <http://www.qsl.net/k8iqy>

Enjoy, and thanks for the kind words and feedback.....Jim, K8IQY

-----  
Date: Wed, 3 Nov 1999 22:41:07 -0500  
From: "John J. McDonough" <jjmcd@tm.net>  
To: <kory@avatar.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [55131] Re: Enclosures  
Message-ID: <001901bf2676\$7076e620\$010044c0@conor-mac-nessa>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Kory

I found a decent looking enclosure at BG Micro, tho it was plastic. Not sure if it's quite big enough for you, it *\*IS\** a tight squeeze with the controls. I found another, smaller, enclosure there for the 20 meter one which I'm building a little tighter.

If you are using the KI7MN board the enclosure is tight, but I think the board was larger than 5X7.

See my pic of the board in the cab at <http://www.qsl.net/wb8rcr/2N2-40.htm>. BG Micro's URL is <http://www.bgmicro.com>. They have also 2N2222A's at \$20/1000!

72/73 de WB8RCR      <http://www.qsl.net/wb8rcr/>  
didileydadidah      QRP-L #1446 Code Warriors #35

-----Original Message-----

From: Kory Hamzeh <kory@avatar.com>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Date: Wednesday, November 03, 1999 10:33 PM  
Subject: Enclosures

>  
>Hi All,  
>  
>I've started on my 2n2/40, but I'm making the PCB slightly larger (about 6  
>x  
>7 instead of 5 x 7), because I'm adding the tick chip and the a 10 watt  
>final. Believe it or not, I can not find an enclosure to fit the PCB and  
>leave enough room for the front panel and back panel controls. Radio Shack

>(and others) have a 8 x 6 x 3 cabinet, but I need something a little larger  
>(maybe 8 x 7 or 9 x 7 ). I've checked the Radio Shack, Tech America,  
Mouser,  
>Digi-Key, MPJA with no luck.  
>  
>Any leads here would be nice. I'm looking for a high quality, nice looking  
>enclosure.  
>  
>73,  
>Kory  
>AC6RN  
>

-----  
Date: Wed, 03 Nov 1999 22:41:56 -0500  
From: "The One and Only!" <mitch96@pobox.com>  
To: qrp-1 <qrp-1@Lehigh.EDU>  
Subject: [55132] ww4ml struck out in mudville  
Message-ID: <38210084.B09385B2@pobox.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Wooo is me.....  
You cant hear the pattern of the fox if you cant hear the fox, eh??  
Could'nt hear a peep down here in the florida swamp. The Hounds were  
evident but, no tail.. Any other Fla hounds hear him?? Tom?? Fred??  
Mac??  
--  
73, mitch ww4ml  
lost in the ethers again..

-----  
Date: Wed, 3 Nov 1999 21:56:14 -0600  
From: "Richard Matthews" <prm@hiwaay.net>  
To: <qrp-1@Lehigh.EDU>  
Subject: [55133] Re: ww4ml struck out in mudville  
Message-ID: <014f01bf2678\$8b79a780\$6f85150c@scottsboro.org>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

> Wooo is me.....  
> You cant hear the pattern of the fox if you cant hear the fox, eh??  
> Could'nt hear a peep down here in the florida swamp. The Hounds were  
> evident but, no tail.. Any other Fla hounds hear him?? Tom?? Fred??  
> Mac??  
> --  
> 73, mitch ww4ml  
> lost in the ethers again..  
.....  
...

Same conditions in Northern Alabama, No fox sounds but I hear the hounds. If  
it was a New England fox, we'd have no problem

73, Richard WA4NWW

-----  
Date: Wed, 3 Nov 1999 22:57:41 EST  
From: K1JD@aol.com  
To: w0mc@hotmail.com, qrp-1@lehigh.edu  
Subject: [55134] Re: FOX: Hunt for fox W0MC tonight!  
Message-ID: <0.61eab12d.25525e35@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit

My Antenna: Doublet, oriented NW/SE with 25' legs on the SE  
and NW sides of my house. It is under the eaves  
on the NE side of the house.

Jerry:

Good grief, that was tough - you were just above the noise. If not too  
much trouble, could you please turn your house a bit to get more signal into  
New England by Monday PM??

Thanks!

73,  
John K1JD  
Jamestown, RI  
K2 SN's #139 & #583  
G5RV at 40'

-----  
Date: Wed, 03 Nov 1999 23:00:42 EST  
From: n5ib@juno.com  
To: qrp-1@Lehigh.edu

Subject: [55135] HB & MANHATT - first time to try it  
Message-ID: <19991103.220017.8727.0.N5IB@juno.com>

Wish me luck gang. I've just started on my first manhattan style scratch build project. Cut out and trimmed a piece of PCB to fit an Altoids box. Tin plated it. Tin plated a few strips of PCB stock to cut pads from, and set to work.

Its going to be an Epson custom-programmed oscillator (28.160 MHz) followed by a divide 4 using two flip-flops ala Fireball-40. After that I shall fiddle around a bit with circuit ideas to see how I can end up with 500 mW or so. The oscillator can be bought with an output-enable pin (active high) which looks like it might be a good way to key it, though it may turn out to be clicky.

What about this idea (I'm sure it can't be original, someone's bound to have tried it)  
Use both the Q and /Q outputs of the flip-flop to drive a pair of OC buffers (or even pairs of paralleled buffers) and figure out some scheme to supply them through a center-tapped inductor so they act like they are as sort of pseudo push-pull????? Impedance matching will be a mystery..... but I've got a Ouija board.....

So far the construction hasn't been too bad on my bifocalled eyes. The 14 pin IC mounting was pretty tedious, but not awful. I can see how this building method can grow on you. I've got the thing done up through the divide by 4, and have a nice 3 Vpp signal near 7040 (a couple hundred Hz high). The oscillator is spec'd for +/- 50 ppm frequency accuracy, that's about 1.5 KHz at 28 MHz, about 350 Hz when divided, so it's pretty well according to spec.

That's all the eyes can take for tonight...

72,  
Jim N5IB

---

Get the Internet just the way you want it.  
Free software, free e-mail, and free Internet access for a month!  
Try Juno Web: <http://dl.www.juno.com/dynoget/tagj>.

---

Date: Wed, 03 Nov 1999 23:01:30 -0500  
From: "T.J. \"SKIP\" Arey N2EI" <tjarey@home.com>  
To: "qrp-1@Lehigh.EDU" <qrp-1@Lehigh.EDU>, plburbank@kih.net  
Subject: [55136] RE: LIST (See, I'm trying to behave)  
Message-ID: <3821051A.E4F54D8D@home.com>



MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Pete Burbank wrote:

>Hey! Maybe Alan Watts will check in.  
>73 Pete NV4V

If Ol' Al were to show up he would grab us all by the shoulders, give us a good shake and then say "This is supposed to be fun...Remember???"

If we ever needed him around to get us to lighten up (here on qrp-l and most everywhere else) it's now.

--

+++++

T.J. "SKIP" AREY N2EI e-mail tjarey@home.com

Website <http://members.home.net/tjarey>

Snail Mail: PO Box 236, Beverly, NJ 08010

Specialization is for insects! LAZARUS LONG

-----

Date: Wed, 3 Nov 1999 23:09:47 EST  
From: RangerSF5@aol.com  
To: qrp-l@lehigh.edu  
Subject: [55137] Just a Reminder/ non radio related  
Message-ID: <0.7a88fd91.2552610b@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit

[http://members.tripod.com/~warlock\\_within/soldier.html](http://members.tripod.com/~warlock_within/soldier.html)

-----

Date: Wed, 3 Nov 1999 20:14:33 -0800  
From: "jmb" <jmb@cruzio.com>  
To: "QRP-1" <qrp-l@lehigh.edu>  
Subject: [55138] NT+ Fox -- Start Time Correction for Thursday Nite (Local) - Fox will START at 0230Z -- K6JMB -  
Message-ID: <032901bf267b\$1a023b50\$4682e3a5@workstation>  
MIME-Version: 1.0  
Content-Type: text/plain;

charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I made a mistake in my earlier post on the start time for the NT+ Fox Hunt tomorrow.

Here's the CORRECT TIMES.....

I'm the NT+ Fox this Thursday the 4th (Local Time) - GMT Friday November 5th 0230-0430Z, and will start working between 7.110 and 7.115 MHz and up even higher if necessary. Last night, I was so hungry for a bite I migrated as far north as 7.140 I think.

My apologies for the error.

72,  
Jim

-----  
73 de K6JMB  
Jim Boyle  
Santa Cruz, California  
FISTS #6537 QRP-1 #1845

-----  
Date: Wed, 3 Nov 1999 23:13:47 EST  
From: Macstein@aol.com  
To: mitch96@pobox.com, qrp-1@lehigh.edu  
Subject: [55139] Re: ww4ml struck out in mudville  
Message-ID: <0.b460afba.255261fb@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit

In a message dated 11/03/99 10:44:00 PM EST, mitch96@pobox.com writes:

> Wooo is me.....  
> You cant hear the pattern of the fox if you cant hear the fox, eh??  
> Could'nt hear a peep down here in the florida swamp. The Hounds were  
> evident but, no tail.. Any other Fla hounds hear him?? Tom?? Fred??  
> Mac??  
> --  
> 73, mitch ww4ml  
> lost in the ethers again..

You ain't kidding bud.... he was 229 at the peaks...and seemed to be working right on the freq 7.043 (least that's what MY dial said! - grin). He would pop out of the noise for about half of an exchange then dissappear... I hope

he copied me..didn't hear the confirmation. I'm sure sorry if I QRM'd Ade -- or anyone else. Hope you got him Mitch!

-MAC-  
AF4PS

-----  
Date: Wed, 3 Nov 1999 23:21:47 -0500 (EST)  
From: Joel Malman <malman@world.std.com>  
To: w1rfi@arrl.org  
Cc: qrp-l@Lehigh.EDU  
Subject: [55140] OP: Zombie, ARRL TT2  
Message-ID: <199911040421.XAA16693@world.std.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=US-ASCII  
Content-Transfer-Encoding: 7bit

Ed,

I just want to thank you for the QRP thrill of a lifetime -- working the original TT2 at ARRL HQ !! Working the (new) TT2 on 20 was just as neat.

For sure, working a rig with an output between 500-800 mw to a 3 element beam at 100-120 foot makes for a lot of fun! ... Can the ARRL help me explain to my Condo Association why I need a 100 foot tower?

72's joel

p.s. Ed - no clams next time.

--  
/joel K1QM (K1 Queen Mary) Concord, Massachusetts  
QRP-L 337, QRP-ARCI 9305, MI-QRP 1641, NorCal #1884

-----  
Date: 3 Nov 1999 22:30:58 LOC  
From: <SFIKE@twa.com>  
To: <qrp-l@lehigh.edu>  
Subject: [55141] Xtal-set radio  
Message-ID: <19991103.223058.SFIKE@twa.com>

Myself and a friend are currently building traditional crystal set radio's for "just in case" a Y2K worse case senario should happen. Being the ham, he asked me a quetion I simply could not answer. Maybe someone on this reflector can.  
He wants to know what causes the galena xtal (or in our cases, the germanium

diodes) to detect RF signals and convert them into an electrical signal?  
What is the process called and how does it work?  
Not knowing where to turn, I figured this group would be the best place for  
answers...  
Thanks in advance!  
72  
Scott,KC0BUS

-----  
Date: Wed, 03 Nov 1999 21:31:54 MST  
From: "Jerry McCollom W0MC" <w0mc@hotmail.com>  
To: qrp-l@lehigh.edu  
Subject: [55142] FOX: W0MC  
Message-ID: <19991104043154.95083.qmail@hotmail.com>  
Mime-Version: 1.0  
Content-Type: text/plain; format=flowed

In the words (rather, the single word) of K10J.....

Wow!

.... log on its way tomorrow!

72,  
Jerry  
W0MC

-----  
Get Your Private, Free Email at <http://www.hotmail.com>

-----  
Date: Wed, 3 Nov 1999 21:30:20 -0700  
From: Wayne Burdick <n6kr@elecraft.com>  
To: "Steven Weber" <kd1jv@moose.ncia.net>  
Cc: qrp-l@lehigh.edu  
Subject: [55143] Re: 1-V challenge thoughts  
Message-ID: <v03102805b446b9e9a5f3@[206.169.248.189]>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

>I'm not sure Wayne fully considered what it would take to produce 1  
>watt of RF output power, with only a 1.5 or 1v supply.

Steve,

Yes, that was somewhat off the cuff on my part. But your subsequent analysis was based entirely on a 1- or 2-transistor amplifier stage, while what I was imagining was lots of devices in parallel, including an intermediate level of buffering to reduce the fan-out problem.

You mentioned getting 250 mW out of \*one\* 2N7000 at 1.5 V, and that probably took you half an hour with one hand tied behind your back. I hold out the hope that with some effort, and perhaps some hand-picked 2N7000s (etc.) we just might approach the 1-watt level. Perhaps I'll revise my prediction to 0.5W at 160 meters ;)

I'll be curious to see how much power you've gotten your transmitter up to by next week. It's always best to start out with no limits.

0.73,

Wayne  
N6KR

-----  
Date: Wed, 3 Nov 1999 23:35:17 -0500  
From: w2xn@juno.com  
To: qrp-l@lehigh.edu  
Subject: [55144] Fox in FL  
Message-ID: <19991103.233518.-674227.4.w2xn@juno.com>  
MIME-Version: 1.0  
Content-Type: text/plain  
Content-Transfer-Encoding: 7bit

My ear drums hurt from the noise. My ears hurt from the earphones. Like Mac said, every so often he popped out of the noise enuf to get a letter or two but that's it.

Argh, my ears will never be the same. Guess I am going to have to build a mountain under the house. If I can't put up a big antenna, maybe I can get some advantage by raising the house a couple hundred feet or so.....

fred w2xn, lakeland, fl

n a message dated 11/03/99 10:44:00 PM EST, mitch96@pobox.com writes:

> Wooo is me.....

> You cant hear the pattern of the fox if you cant hear the fox, eh??  
> Could'nt hear a peep down here in the florida swamp. The Hounds were  
> evident but, no tail.. Any other Fla hounds hear him?? Tom?? Fred??  
> Mac??  
> --  
> 73, mitch ww4ml  
> lost in the ethers again..

You ain't kidding bud.... he was 229 at the peaks...and seemed to be working right on the freq 7.043 (least that's what MY dial said! - grin). He would pop out of the noise for about half of an exchange then dissappear... I hope he copied me..didn't hear the confirmation. I'm sure sorry if I QRM'd Ade -- or anyone else. Hope you got him Mitch!

-MAC-  
AF4PS

---

Get the Internet just the way you want it.  
Free software, free e-mail, and free Internet access for a month!  
Try Juno Web: <http://dl.www.juno.com/dynoget/tagj>.

---

Date: Wed, 3 Nov 1999 23:12:24 -0600  
From: "Mike =?ISO-8859-1?Q?N=D8WDM"?= <michaelbstjames@email.msn.com>  
To: <nilsbull@juno.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [55145] Re: NILS: Hey, I'm an action figure!  
Message-ID: <009301bf2683\$30fcac20\$172a0b3f@default>

It's okay "Nils". We're watching out for you. Your friends, at the Bureau.

-----Original Message-----

From: Nils R Young <nilsbull@juno.com>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Date: Wednesday, November 03, 1999 5:48 PM  
Subject: NILS: Hey, I'm an action figure!

>Gang,  
>  
>I >This is really gonna mess up my relocation with the witness protection  
>program. Somebody's gonna come up to me some day & say "Tag! You're it!"  
>  
>

>Nils  
>-----  
>Nils R. Bull Young -- El Gringo Errante -- La Estancia de los Guajolotes  
>Sonrientes  
><http://home.fiberia.com/wb8ijn> -- WB8IJN --  
><http://members.xoom.com/nilsbull>  
>"In my day you had to FIGHT to have oligarchs! Every day was a STRUGGLE!  
> -- Comrade Sergei Nikolaevich McTovarishov --  
>  
>-----  
>Get the Internet just the way you want it.  
>Free software, free e-mail, and free Internet access for a month!  
>Try Juno Web: <http://dl.www.juno.com/dynoget/tagj>.

-----  
Date: Thu, 04 Nov 1999 00:29:48 -0500  
From: Pete Burbank <plburbank@kih.net>  
To: <qrp-l@Lehigh.EDU>  
Subject: [55146] RE: LIST (See, I'm trying to behave)  
Message-ID: <3.0.32.19991104002945.0071404c@kih.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

At 11:01 PM 11/3/99 -0500, you wrote:

>Pete Burbank wrote:  
>>Hey! Maybe Alan Watts will check in.  
>>73 Pete NV4V  
>  
>If Ol' Al were to show up he would grab us all by the shoulders, give us  
>a good shake and then say "This is supposed to be fun...Remember???"  
>  
>If we ever needed him around to get us to lighten up (here on qrp-l and  
>most everywhere else) it's now.

Dear Skip...I knew that you would know who Alan Watts is...  
Kinda doubt that many others do.  
Notice that I said IS...a brain like that never dies.  
QRP-L is also a massive brain...I don't think it will atrophy.  
Takes mavericks like you to keep things cookin'.  
73 Pete NV4V

-----  
Date: Wed, 03 Nov 1999 23:54:24 -0600

From: Dave Sjolin <sjolin@swbell.net>  
To: SFIKE@twa.com, Qrp-l Reflector <qrp-l@Lehigh.EDU>  
Subject: [55147] Re: Xtal-set radio  
Message-ID: <38211F8F.8F6ABE49@swbell.net>  
MIME-version: 1.0  
Content-type: text/plain; charset=us-ascii  
Content-transfer-encoding: 7bit

SFIKE@twa.com wrote:

>  
> He wants to know what causes the galena xtal (or in our cases, the germanium  
> diodes) to detect RF signals and convert them into an electrical signal?  
> What is the process called and how does it work?  
> Not knowing where to turn, I figured this group would be the best place for  
> answers...

Process is called detection = rectification = amplitude demodulation.

The diode rectifies the signal. Only the rf signals which are positive above ground cause current through the earphone coil. Any rf signals that are negative to ground are shorted out by the diode as it conducts and holds any voltage variations to just the forward diode voltage (0.5V-0.7V). The power for the signals comes entirely from the radio waves, so a battery is not required.

The detector works because the current driving the diaphragm varies according to the amplitude of the ac signal. The greater the amplitude, the more force to move the diaphragm.

Check ARRL handbook or any other source for more info.

73 de Dave, N0IT

-----  
Date: Wed, 3 Nov 1999 23:06:45 -0700  
From: "Floyd Smithberg" <flydnq7x@primenet.com>  
To: "QRP-L message" <qrp-l@Lehigh.edu>  
Subject: [55148] Fox...Yesssss  
Message-ID: <006d01bf268a\$e104e540\$d53184ce@primenet.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I was preparing, serving and cleaning up dinner during the first hour  
...I'd pop in, find him, call once, back to dinner. He was  
readable when not under QRM all evening...good solid 429 but didn't use his



RIT much at all. Tried +/- off freq to no avail, tailending, praying...just had to hang in 'til others worked him or gave up. Got him finally after shooting blanks for 45 minutes.  
BTW, thought you had him Brian...he called you and asked for your call again but you didn't come back...he probably dipped into the QRN doodoo at your QTH....oh well, Sat & Sun will be better...SS SS SS SS SS SS SS....go for a mug and a pin.  
Floyd NQ7X Phoenix ScQRPion DM33uq

-----  
Date: Thu, 4 Nov 1999 00:20:43 -0600  
From: "Kelly Ellison" <kelman@dialnet.net>  
To: <qrp-1@Lehigh.EDU>  
Subject: [55149] 100Mw to LZ2RS  
Message-ID: <199911040620.AAA04355@dialnet.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=ISO-8859-1  
Content-Transfer-Encoding: 7bit

Hi,

Called CQ at 14.060 at 11:45PM Central time with 5 Watts and 280 ft loop. Got a call from Rumi, LZ2RS. He gave me a 559 and he was about 579 here. We both lowered power to 1 watt and the exchange was solid from him at 539. He was about 559 here on 1 Watt. The we Dropped to 100mW both ways according to the WM-1 Meter here. He gave me a 519 and I gave him a 529. Don't know if we got near any records but the thought of working that distance with less power than my sons walkie Talkie was really cool. LZ2RS was using a 3 element beam to my 280 ft loop fed with ladder line to a remote balun. Rig here was QRP+ to LDG AT-11 tuner. Have fun. 73,

Kelly Ellison - WB0WQS

-----  
Date: Thu, 4 Nov 1999 01:46:41 -0500 (EST)  
From: "Paul R. Valko" <prvalko@oakland.edu>  
To: SFIKE@twa.com  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [55150] Momma Fox: FOX hunt how to  
Message-ID: <Pine.OSF.3.95.991104013927.3310D-100000@saturn3.acs.oakland.edu>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

On 3 Nov 1999 SFIKE@twa.com wrote:

> Still being relatively new to QRP, (and amateur radio for that matter!) could  
> somebody please explain to me how a "FOX hunt" works?

Hello Scott and welcome to the hobby! You must be pretty new, because I  
post the website where all the information is every week. :-)

All the scoop on the QRP-L Foxhunt is at the official QRP-L Fox Website:

<<http://www.acs.oakland.edu/~prvalko/foxhunt.htm>>

You will want to get info from Doc, K0EVZ if you are a NOVICE or TECH+.  
Doc runs the special N/T+ foxhunt. The "big" foxhunt is held in the  
general CW band near the QRP calling frequency of 7.040 KHz.

Again, a warm welcome to QRP-L and ham radio!

73! =paul= W8KC

Collector of Ten\*Tecs and other fine plastics.

Visit the Virtual Ten\*Tec Museum at:

<<http://www.acs.oakland.edu/~prvalko>>

-----  
Date: Thu, 4 Nov 1999 00:00:09 -0800  
From: "Radman" <radman@best.com>  
To: <PDouglas12@aol.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [55151] Re: solder type ID please  
Message-ID: <017801bf269a\$a8330c00\$94dd56ce@vip.best.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Hi Preston,

I'd recommend you make that \*toll free\* call to Kester technical support --  
1-800-2-KESTER (800/253-7837). If you're unsure of your 282 flux core, their  
engineers can certainly set you straight.

Personally, I'd be very surprised to learn that your "282" is "corroding

your rigs to compost ;-)"

GL es 72,

Conrad - NN6CW

\*\*\*\*\*

///various snips///

I have a couple of pounds of Kester rosin core solder which is clearly 63/37 tin to lead, core #66, and designated QQS571E and WRMAP3 and flux "282". NB one roll is QQS571F as well. The Kester website doesn't list the 282 core.

1. Is this stuff RMA type, mildly activated rosin core solder? and more important 2. Is this stuff non corrosive, so it doesn't have to be scrubbed off in an industrial process like a car wash. Do I have to tear open all my kits to see if they are corroding to compost?

Thanks for the help.

72,

Preston WJ2V, Long Is., NY

-----  
Date: Thu, 04 Nov 1999 00:27:23 -0800  
From: Jim <w7ls@blarg.net>  
To: SFIKE@twa.com, qrp-1@lehigh.edu  
Subject: [55152] Re: Xtal-set radio  
Message-ID: <3821436A.884540C2@blarg.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Hi. The Galena crystal has naturally occurring areas that are essentially doped either positively or negatively (not sure which, or both, maybe). By searching around with a 'cat whisker' or the point of a needle, you can locate a doped area. That has a natural diode action. This is also called a rectifying action. It allows current to pass in only one direction. It is also referred to as 'detection'.

The reason you need this detection is that the job you're trying to accomplish is to move a diaphragm back and forth in a headphone. To do that, you

must have some sort of a signal that varies at the rate that the human voice does. The radio signal is wiggling back and forth at millions of times per second. If you just sent that signal to the headphones, it would accomplish nothing, because the headphones are too massive to respond to that fast of a signal, AND, your ears can't process wiggles that occur at millions of times per second. That signal is called the carrier. It merely 'carries' the modulation (voices).

Standard AM radio stations are transferring their voices to you by varying the amplitude of the carrier. You can extract the voice signal by rectifying the carrier, thereby sending only a voice frequency to the headphone. It's easier to show it on paper.

The bottom line is that the Galena acts like a standard diode, either of which will extract the voice from the carrier signal. There are good diagrams of this action in any ARRL Handbook. Ask away, if you have questions! 73 de Jim, W7LS

SFIKE@twa.com wrote:

> Myself and a friend are currently building traditional crystal set radio's  
> for "just in case" a Y2K worse case senario should happen.  
> Being the ham, he asked me a quetion I simply could not answer. Maybe someone  
> on this reflector can.  
> He wants to know what causes the galena xtal (or in our cases, the germanium  
> diodes) to detect RF signals and convert them into an electrical signal?  
> What is the process called and how does it work?  
> Not knowing where to turn, I figured this group would be the best place for  
> answers...  
> Thanks in advance!  
> 72  
> Scott,KC0BUS

-----  
Date: Thu, 4 Nov 1999 18:48:31 +0800  
From: "Sly (9M8SL)" <cqsly@tm.net.my>  
To: "Jim Kortge, K8IQY" <jokortge@prodigy.net>  
Cc: <qrp-1@Lehigh.EDU>  
Subject: [55153] RE: ELMER300: 2N2/15 Design Lightoff  
Message-ID: <19991104104831.CXLK21907@User>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

At 01:32 PM 11/3/99 -0500, you wrote:  
>At 07:07 PM 11/3/99 +0800, you wrote:  
>>Hi Jim

>Greeting Sly....great to hear from you again.

I AM POSTING THIS TO THE LIST IN THE HOPE THAT OTHERS CAN ALSO BENEFIT FROM OUR DISCUSSION.

>>How about the near 14.320 MHz and 24.000 MHz Xtals readily found in  
>>computers i.o cards?

>Yep....I heard that and have already updated the design to use 14.318 MHz  
>as the premix frequency. That will work just fine, eliminates the 2X  
>multiplier on the VFO output, and the spurious outputs are manageable.  
I believe it is 14.31818 MHz to be exact...

>and helping me with feedback on parts that are available, and those  
>that would be impossible to acquire. Maybe I asked this already, but  
>can you get powdered iron and ferrite toroids there? If not, can you  
>get ferrite beads that are often used on wires for r.f. supression.  
Nay, toroids are hard to comeby here. Also, if available no specs...no  
labels, unlike Amidon?  
But, ferrite rods from old MW radios are readily available.  
Shops even sell them in 6 - 8 inches length, diameter abt 1/4 to 1/2 inch.  
Ferrite beads even harder, except for the one in the computer boards already  
mentioned.

If u are thinking of R.F. chokes or coils with inductances...small chokes  
that look like resistors in the value of abt 4..7 and 47uH  
are available, apparently for TV repairs !

Since toroids are hard to come by, I've a far-fetched idea ! Dunno whether  
it will work? Why not use a small piece of single-sided PCB board, draw and  
etch continuous spiral squares or concentric circles lines and then  
positioned it 'Manhattan Style' standing up on the board like a high rise  
building, hee, hee... to get the required inductances. This will be a 'REAL'  
Manhattan skyline !!! The required uH could be calculated by the number of  
turns/lines drawn and tappings can be made at the exact point for the right  
amount of inductance(s). Need some calculations though. This could be used  
at the filters, VFO, and even an ATU, if it is to have one !

>how about 10.7 MHz i.f. cans like those used in FM receivers?  
>I'm trying to figure out how to do the tuned circuits, and the mixers.  
>So any insight you can provide will be most helpful.  
10.7 MHz i.f. cans in FM receivers should be ok, readily available in junk  
forms.

That's abt all I can come up with for now. Hpe it is useful.  
By the way, I'm a history teacher, don't know much abt electronics. Excuse  
me, if my ideas are way offfffffffffffffffffffff the mark !

>72 and kind regards to you and your family.

>Jim, K8IQY  
Likewise, Jim de Sly, 9M8SL  
>From 'The Hidden Paradise of Borneo'

-----  
Date: Thu, 4 Nov 1999 06:03:33 EST  
From: K1JD@aol.com  
To: Macstein@aol.com, qrp-1@lehigh.edu  
Subject: [55154] Re: FOX: Hunt for fox WOMC tonight!  
Message-ID: <0.6615aa2c.2552c205@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit

He was never more than 229 at peaks to me.

Mac:

The good news: there wasn't much SSB QRM last night; the bad news: there wasn't much signal either.

I gave Jerry a 229 also last night and that was generous. You were S9+ here as well; low power signals really seem to propagate well N/S along the East coast.

See you Monday!

73,  
John K1JD  
Jamestown, RI  
K2 SN's #139 & #583  
G5RV at 40'

-----  
Date: Thu, 04 Nov 1999 11:09:36 +0000  
From: Tom Palmer <n1tp@worldnet.att.net>  
To: K1JD@aol.com  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [55155] Re: FOX: Hunt for fox WOMC tonight!  
Message-ID: <38216970.BE543944@worldnet.att.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

John, I heard you bag the FOX. Very crisp signal into SW Florida.

Tom, N1TP

K1JD@aol.com wrote:

> He was never more than 229 at peaks to me.  
>  
> Mac:  
> The good news: there wasn't much SSB QRM last night; the bad news: there  
> wasn't much signal either.  
> I gave Jerry a 229 also last night and that was generous. You were S9+  
> here as well; low power signals really seem to propagate well N/S along the  
> East coast.  
> See you Monday!  
> 73,  
> John K1JD  
> Jamestown, RI  
> K2 SN's #139 & #583  
> G5RV at 40'

-----  
Date: Thu, 04 Nov 1999 04:00:22 -0800  
From: Dave Fifield <fifield@pacbell.net>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [55156] Red Hot 40 - Now Available  
Message-ID: <000701bf26bc\$2c7167c0\$0100a8c0@pacbell.net>  
MIME-version: 1.0  
Content-type: text/plain; charset="iso-8859-1"  
Content-transfer-encoding: 7bit

The Red Hot Radio "Red Hot 40" kit is now available.  
Same price as the Red Hot NorCal 20, \$135 - superb  
value for money \*and\* high performance all in one!

Details on the Red Hot Radio website at:

<http://www.redhotradio.com>

72, Dave Fifield, AD6A

-----  
Date: Thu, 4 Nov 1999 07:49:07 -0500  
From: hamjoel@juno.com  
To: qrp-l@lehigh.edu  
Subject: [55157] Politician Wind.... wire / rope antennas  
Message-ID: <19991104.074909.-202513.0.hamjoel@juno.com>  
MIME-Version: 1.0

Content-Type: text/plain  
Content-Transfer-Encoding: 7bit

Hi Y'all

just thought some one might like to kneaux that my two element wire yagie got through two days of politician winds and stayed up high.... gusted up near 40mph uup heah.. took out the lectricity...

I hear the fox but he don't hear me... kinda remindes me of the saying "I loves my darling but she don't loves me"...

My cajun mama thinks I may have some form or "wire frost" on the antenna.... Course I been wrking sstv on forty and the antenna been catching some of the best pictures ever... just can't seem to catch a fox.... Well, guess my cajun mama was right... when she said "success is kinda like a sheriff's payroll..... strictly relative".... :-)

Joel KE1LA  
In Maine

-----  
Get the Internet just the way you want it.  
Free software, free e-mail, and free Internet access for a month!  
Try Juno Web: <http://dl.www.juno.com/dynoget/tagj>.

-----  
Date: Thu, 4 Nov 1999 08:22:02 EST  
From: K4NK@aol.com  
To: qrp-1@lehigh.edu  
Subject: [55158] F/S qrp etc.  
Message-ID: <0.d5cf856.2552e27a@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit

Gang;

I have listed this before but now at a lower price...MFJ 9015 15 meter rig as new in box. \$80.00 shipped conus.

Also have Ten Tec OMNI A great shape just overhauled by Ten Tec ....\$225 shipped.

Contact me direct only 72 Les K4NK

-----  
Date: Thu, 4 Nov 1999 08:27:30 -0500  
From: "Mike Yetsko" <myetsko@insydesw.com>  
To: <SFIKE@twa.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [55159] Re: Xtal-set radio  
Message-ID: <005c01bf26c8\$5f553e80\$9001a8c0@wn.net>



MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

> Myself and a friend are currently building traditional crystal set  
radio's  
> for "just in case" a Y2K worse case senario should happen.  
> Being the ham, he asked me a quetion I simply could not answer. Maybe  
someone  
> on this reflector can.  
> He wants to know what causes the galena xtal (or in our cases, the  
germanium  
> diodes) to detect RF signals and convert them into an electrical  
signal?  
> What is the process called and how does it work?  
> Not knowing where to turn, I figured this group would be the best  
place for  
> answers...  
> Thanks in advance!  
> 72  
> Scott,KC0BUS

First off, Galena is a 'diode detector', which works for AM. Think of  
it this  
way. Imagine what an audio signal looks like on a scope. Lots of peaks  
and valleys, right. Now imagine an RF wave. It's a solid bar because  
it's  
frequency is too high to see, if you're still on a scale for audio,  
right.

Now, imagine what that RF looks like if it's 'modulated' with the  
audio. It's a bar but with skinney and fat sections that follow the  
audio signal.

So far, the standard stuff they show even high school kids on radio.

Well, imagine that you center this bar that is fat and thin on the  
scope,  
and call the center line 0v. Still simple. It goes equally above 0 and  
below.  
If you were to 'rectify' this with a single diode you can just 'blank  
off'  
the bottom half of the scope. You know what happens if you use a single  
diode on an AC line to get DC for power right? Lots of ripple and hum!  
Well, the SAME THING HAPPENS HERE!! Only the ripple and hum  
is your original audio signal! just 'filter' it to audio frequencies to  
take

out that RF that is still bouncing around, and you're back to an original representation of the audio used to modulate the signal to begin with.

Mike Yetsko  
N1DVJ

-----  
Date: Thu, 4 Nov 1999 06:33:07 -0700 (MST)  
From: af852@rgfn.epcc.edu (William R Colbert)  
To: hugh@dim.com, qrp-1@lehigh.edu  
Subject: [55160] Re: Magnifier Lamp  
Message-ID: <199911041333.GAA02283@rgfn.epcc.edu>

The flourescent types are pretty expensive but I think a lot of the electronic parts places may carry them as well as Harbor Freight. I have a smaller size purchased from Hobby Lobby for about 15 - 18 bux (on sale) and uses a 25 watt to 60 watt incandescent bulb and for most jobs it works very well. I think they are also available at the various types of model and clothing craft stores such as Cloth World. I have seen some sales in the past year for as cheap as 10 dollars. worth a look.

73

Ray

--  
Ray Colbert, W5XE  
00TC 3618, SOWP 1064M  
El Paso, Tx (FAR WEST TEXAS!)  
also: w5xe@juno.com

-----  
Date: Thu, 4 Nov 1999 06:34:44 -0700  
From: "al dawkins" <alk0frp@earthlink.net>  
To: <qrp-1@lehigh.edu>  
Subject: [55161] CT-9 software.K0FRP  
Message-ID: <003201bf26c9\$5bb2f500\$3b02090a@adawkins.hsacorp.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Thanks to all who helped. I finally got on the users group but a local ham sent me the CT945.exe file anyway.

Thanks to all. ready to go, but did not get my 40m beam fixed nor did I get my KT34XA up. Go with what I have .

Thanks

Al K0FRP

-----  
Date: Thu, 04 Nov 1999 08:09:05 -0600  
From: "Steve Yates, AA5TB" <aa5tb@swbell.net>  
To: fifield@pacbell.net, Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [55162] Re: Red Hot 40 - Now Available  
Message-ID: <006901bf26ce\$28e862e0\$2a37a497@aa5tb>  
MIME-version: 1.0  
Content-type: text/plain; charset="iso-8859-1"  
Content-transfer-encoding: 7bit

Dave,

Thanks for the information and your work.

I thought you might be interested to know that your site is blocked by "SurfWatch", by mistake I'm sure. My ISP provides "SurfWatch" for me and it has been very helpful for when my children are surfing the net. "SurfWatch" must of keyed in on the "Red Hot" :-) You may want to contact them at:

[sites@surfwatch.com](mailto:sites@surfwatch.com)

73,

Steve Yates - AA5TB

Fort Worth, TX - EM12gs

<http://home.swbell.net/aa5tb>

-----  
Date: Thu, 04 Nov 1999 10:01:05 -0500  
From: David Hinerman <dlh1009@ritvax.isc.rit.edu>  
To: qrp-1 <qrp-1@lehigh.edu>  
Subject: [55163] Re: ELMER300: 2N2/15 Design Lightoff  
Message-ID: <38219FB1.28A24951@rit.edu>  
MIME-version: 1.0  
Content-type: text/plain; charset=us-ascii  
Content-transfer-encoding: 7BIT

"Sly (9M8SL)" wrote:

> Since toroids are hard to come by, I've a far-fetched idea ! Dunno whether  
> it will work? Why not use a small piece of single-sided PCB board, draw and  
> etch continuous spiral squares or concentric circles lines and then  
> positioned it 'Manhattan Style' standing up on the board like a high rise  
> building, hee, hee... to get the required inductances. This will be a 'REAL'  
> Manhattan skyline !!! The required uH could be calculated by the number of  
> turns/lines drawn and tapings can be made at the exact point for the right  
> amount of inductance(s). Need some calculations though. This could be used  
> at the filters, VFO, and even an ATU, if it is to have one !

Sly et al,

Harry Lythall has added a page to Harry's Homebrew Homepages on just that topic - he describes a method for "stacking" boards to get higher inductances than a single board could provide:

<http://sm0vpo.8m.com/info/pcb-coils-00.htm> (With mirrors darned near everywhere.)

Harry also has a project article for an FM broadcast band transmitter using an etched tank coil.

Dave

--

Dave Hinerman WD8CIV  
Ontario, NY Grid FN13IF  
dlh1009@rit.edu

-----  
Date: Thu, 4 Nov 1999 10:54:23 -0500  
From: "Everhart, Joseph @ CSE" <jeverhar@mail.cse.l-3com.com>  
To: "'qrpl'" <qrpl@lehigh.edu>  
Subject: [55164] RE: Red Hot 40 - Now Available  
Message-ID: <B9A5540E55F7D211BE830000D11AD11E3339AA@l3c-xchg-cse.mail.cse.l-3com.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"

Group,

Dave's announcement of the Red Hot 40 is great news!

40 meters is a tough band and the RH-40 receiver should give its owners a distinct advantage. Might even be some fox hunter's new secret weapon.

I can certainly attest to the sensitivity and selectivity of this rig. When my receiver died in the Pacificon "Indoor fox hunt" Dave graciously let me use his RH-40 proto. Its sensitivity was superb giving a very strong sounding signal from the fox transmitting into a dummy load. And the excellent selectivity eliminated all of the local QRM. This rig is a definite winner!

72/73,

Joe E., N2CX

-----  
Date: Thu, 4 Nov 1999 11:00:54 EST  
From: K4NK@aol.com  
To: qrp-1@lehigh.edu  
Subject: [55165] rigs sold  
Message-ID: <0.c3e41b89.255307b6@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit

Gang;

What a response. Both rigs are sold , thanks to all who responded.

72 Les K4NK

-----  
Date: Thu, 4 Nov 1999 10:05:11 -0600  
From: "Cla KA0GKC" <ka0gkc@arrl.net>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>, <SFIKE@twa.com>  
Subject: [55166] Re: Xtal-set radio  
Message-ID: <007701bf26de\$f4a34840\$a10a5e2c@groucho>

SFIKE@twa.com wrote:

> He wants to know what causes the galena xtal (or in our cases, the germanium  
> diodes) to detect RF signals and convert them into an electrical signal?

Sometimes it is difficult to explain things in such a way that those

that aren't hams will understand them. I will try my best to provide an explanation that should help your friend to understand.

First you must understand the AM radio signal. Let's start by taking a signal at 1 Mhz, about the middle of the AM band. For now this signal is unmodulated, it's a constant carrier. Like holding down the key to your CW rig. We have an antenna receiving a small portion of this signal and causing an electrical RF signal going positive and then negative one million times a second in the antenna. Connected to the antenna first in our xtal radio is usually a coil and capacitor which makes a simple filter tuned to the frequency we wish to hear. This gives us the ability to pick a single station. Ours is set to 1 Mhz and we now receive only the 1 Mhz signal instead of all of the band at once. Now we connect it to the earphones via a series connected diode. A galena crystal and catswisker is a type of diode. I used to use pennies and a bent safety pin as a kid. Yup, it does work as a diode do to the copper tarnish, the darker the penny the easier it was to get it to work! So what does a diode do? It is an electrical one way valve. So as the RF signal is moving in one direction electrons flow through the diode, going the other direction the flow is blocked. The polarity of the flow is really unimportant in this simple xtal radio and the diode can be installed either way and work fine. Now we have one million little "pulses" of electrons flowing into the earphone. The earphone is made from a coil of wire which has inductance and acts as a filter choke and smooths out the pulses to a constant level of electrons flowing through the earphone. What this means is the earphone simple can't react to 1 million pulses per second and tends to smooth out the flow of electrons. The signal because a Direct Current (DC). This constant current would move the diaphragm of the earphone to a single position and hold it still, you would hear nothing.

Now we amplitude modulate the 1 Mhz signal with an audio signal, say some music. This audio frequency (AF) signal increases and decreases the intensity of the transmitted RF signal in pace with it. Now back after the diode in the Xtal receiver, the 1 million pulses per second are no longer always of the same intensity. The number of electrons that flows per "pulse" varies with the intensity of the signal at that moment. This varies the current through the earphone and makes the diaphragm move or vibrate in pace with the audio and you hear the music. This varying current is AF Alternating Current (AC)

Now this is a very basic explanation, but I hope it helps you to explain it to your friend.

----

73 de KA0GKC Claton Cadmus  
ka0gkc@arrl.net  
MNQRP #1

Minnesota QRP'ers we're looking for you!  
Email me or visit this page <http://www.qsl.net/mnqrp>

-----  
Date: Thu, 04 Nov 1999 08:32:54 -0800  
From: Allan G Taylor <k7gt@arrl.net>  
To: qrp-l@lehigh.edu  
Subject: [55167] XCVR: NC40A mods  
Message-ID: <3821B536.2C83@arrl.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Good morning all.

I have just implemented a series of mods to my NC40A based mostly on posts by Gary Surrency, AB7MY. I would like to post my experience, item by item, to assist others who like more than the nominal 2W that the stock 40A gives. In all of the following, please add 20% to the power readings as they were taken with a meter known to be 20% off (low)

The rig is a NC40A, Rev. B, with the KC-1 keyer/counter. It was originally assembled by Jay, W6JDB.

1) First mod (motivated by the 40-40 hotrodding article in QRP Power):  
replace the 78L08 with a Zetex ZR78L08C.  
Resting receiver current went from 19.56mA to 18.02mA.  
Coincidentally, power out changed from 1.8W to 1.9W

2) Replace J309 with J310. Output to 2.0W

3) Replaced 2N2222A with R/S MPS2222A. No change (still 2.0W)

4) Replaced 2N3053 with MRF237. Power to 2.6W.

5) Compressed turns of L8. Power to 2.9W

6) Replaced MPS2222A, on a lark, with a 2N5109. Maybe 2.95W. Maybe.

I am now in the process of changing out the output filter capacitors with silver micas. Also will likely rewind both L7 and L8 with #22 wire. And also replace the MRF237 RFC with one wound on a toroid.

Bottom line: with the simple mods of J309 -> J310 , 2N3053 -> MRF237, and compressing L8's turns, I have upped the output power about 64%. The (corrected) output now is 3.5W. My goal 4+W on a standard 13.8V supply.

I am surprised that swapping in the 2N5109 didn't do more. Any suggestions related to it? If none, I will pull it and put back in the 2N2222A. Are there any other tricks to getting power out up over the 4W threshold? I have located in the literature (QRPP mostly) suggested output filter values from several sources and will at least one set of them.

I will be also replacing the 5V reg chip in the KC1 with the corresponding 5V Zetex chip. I should be able to get resting rx current down to 16.5mA.

A collateral damage issue is that now the sidetone on xmt is so strong that 'something' is overloading.

--

Allan Taylor K7GT k7gt@arrl.net <http://www.qsl.net/k7gt>

-----  
Date: Thu, 4 Nov 1999 11:09:59 -0600  
From: Bcieslak@ra.rockwell.com  
To: qrp-l@lehigh.edu  
Subject: [55168] FOX:I winged em but he got away  
Message-ID: <8625681F.005E4C6F.00@ramilwsmt01.ra.rockwell.com>  
Mime-Version: 1.0  
Content-type: text/plain; charset=us-ascii  
Content-Disposition: inline

I thought I heard him call me back but he slipped away in the tall grass of QRN before I could be sure.

Rats, the perfect season comes to an end. Now 3 and 1.  
That's what happens when you get too cockey and think this is too easy. (I can hear N1TP snickering at me)  
Congrats to all you hounds who pulled him out.

Brian AE9K

-----  
Date: Thu, 4 Nov 1999 12:11:11 EST



From: Robspark@aol.com  
To: qrp-1@lehigh.edu  
Subject: [55169] AR QRP 40m Net Results  
Message-ID: <0.4e9b5645.2553182f@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit

The AR-QRP Net had 6 QNIs last night. A QSO in progress on 7.042 delayed the start of the net. Thereafter, the band conditons were fair, but very noisy. While the net was in progress, a foxhunt "ran by." Boy, did that sound like fun! There must have been a dozen or more QRPers after him sounding like a battalion of crickets.

The net started at 0140Z and ended at 0211Z. The net is a fun place to listen and brush up on CW, even if one does not choose to QNI! Thanks to those who participated! Here are the stations that checked in:

N3BJ	Alan	K2
AE4IC	Bob	K2
N5IJ	Dave	Kenwood
W2XN	Fred	
WA5BDU	Nick	Tuna Tin
AF4PS	Mac	

The AR-QRP Club now has 3 weekly nets and a web page. Non-members are encouraged to check in, so there is NO excuse not to keep in touch! If CW isn't your bag, then check out the QRP SSB net on Saturday mornings!

Winter Net Skeds

Monday Night	3.560	MHz	7:30 PM CST	0130Z
Wednesday Night	7.042	MHz	7:30 PM CST	0130Z
Saturday Morning	7.2725	MHz	8:00 AM CST	1400Z
Website address:	<a href="http://www.qs1.net/nq5rp/">http://www.qs1.net/nq5rp/</a>			

The NCS was Bob AB5ZD, using the AR QRP Club call NQ5RP, a Kenwood 450 running 5 watts to a G5RV up about 25 feet in pecan trees from QTH Alexandria LA. Orientation of the ant wire is NNW to SSE.

72,

Bob AB5ZD

-----

Date: Thu, 04 Nov 1999 09:09:12 -0800  
From: Ed Loranger <we6w@qs1.net>

To: qrp-1@lehigh.edu  
Subject: [55170] Fox:Chronicle du jour  
Message-ID: <3821BDB8.4F68@qsl.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

I had arrived home early, the 9 mile bicycle ride was fast and safe now that I've added the brake upgrades. A quick chat with the ham down the street revealed he is 2 Meters only and I beat him home the last 6 miles while he was stuck in the traffic :)

Still sweating, I peeled off the long-sleeve shirt. The thermal undershirt remained and prompted a barb from the xyl: Must be the Arkansas QRP net tonight. Boo! Boo to her! I tried to work the net be with 2 minutes to go until fox time I QRT my attempts to QNI and instead, this NightOwl sharpened the talons, prepared to rid the fox of his fine pelt.

I zero-beat and scribe his frequency. I copy full information. The pattern is: QRS to 18 WPM; call late; call on frequency.

I note that one loud station is annoying the other hunters and when he calls everyone holds back so they won't be QRM'd. I wait for the loud guy. I time my first dit to his last. AND LO AND BEHOLD! The wave of QRM parts and I AM THE ONLY SIGNAL on THE FREQ!

I can hear the jeers and the other hunters realize:  
"Ed's just sittin' there and sending completely in the CLEAR!"

Rip, shriek, schlurp! The pelt has been liberated. The fox is quivering from the chill. He don't have a spare and calls for the hounds.

In the shack can be heard a gentle shrill and the NightOwl returns from his mission. His claws gripping a fine pelt to be hung on the wall. The talons retract, the feathers smoothe and ol' WE6W reaches for a Frisco Cigar; being fresh out of La Diva Churchills, I settle for a 20 minute burn... reminiscing of the Red Sea, how it parted, and tonight's foxhunt.

Timing was everything.

72/Ed we6w, have pelt will wallow.

--

-72/Ed WE6W; AR Millennium Q's=> 1941/2000 A-1 OP  
<http://www.qsl.net/we6w> Santa Rosa, CA  
QRP-Z#106 AR#112 HI-QRP#64 ARCI#9397 ARS#275 QRP-L#1068 Old NC#2227

-----

Date: Thu, 04 Nov 1999 12:27:43 -0500  
From: Jim Stafford <w4qo@amsat.org>  
To: qrp-l@Lehigh.EDU, k0EVZ@arrl.net  
Subject: [55171] CLUB: New Clubhouse Editor  
Message-ID: <3821C20F.1881C333@amsat.org>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Doc, K0EVZ, has assumed the QRP Clubhouse column for QRP Quarterly. As the next issue is approaching deadline, if you have news of your club's activities, please send it right away to: k0EVZ@arrl.net

The deadline is November 10. How long would it take to send him a paragraph of info on your club - past news or future plans/activities/meeting dates/etc.

Thanks,

Jim, W4QrpOnly

-----

Date: Thu, 04 Nov 1999 12:39:17 -0500  
From: Jim Stafford <w4qo@amsat.org>  
To: qrp-l@Lehigh.EDU, wb8qyy@one.net  
Subject: [55172] LIST: Topics list online  
Message-ID: <3821C4C5.C6E25A12@amsat.org>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Gang,

The "topics" list is now online thanks to wb8qyy. It is on his site and a copy is located with his permission on the qrp-f FAQ at:  
<http://www.qrparci.org/qrp/faq.htm#topic>

Bookmark it for quick reference and here's a nice touch by DIZ, if you click on the topic name, it starts your message with the selected topic. Why not consider starting all your messages this way?

DIZ's great site for the Flying Pigs QRP group is at:  
<http://www.mpna.com/fpqrp/>

72,

Jim, W4Q0  
Flying Pig #21

-----  
Date: Thu, 4 Nov 1999 10:07:32 -0800  
From: dave\_epps@juno.com  
To: fifield@pacbell.net  
Cc: qrp-l@Lehigh.EDU  
Subject: [55173] Re: Red Hot 40 - Now Available  
Message-ID: <19991104.100737.-175969.1.dave\_epps@juno.com>  
MIME-Version: 1.0  
Content-Type: text/plain  
Content-Transfer-Encoding: 7bit

FWIW from a RH-40 user. The kit went together without a hitch. The cross reference between the parts list and actual building instruction was great. Dave built in a "test as you build" feature and all tests were "right-on". On-Air reports have been good. Best Bang-For-The-Buck single bander I've built.

Added the Tick-4 yesterday which has (2) 50 char. msg. mems., single button access to mems, beacon and non-volatile parameter storage. The Tick-4 is a drop-in replacement.

dave ab5pc fresno, ca.

On Thu, 04 Nov 1999 04:00:22 -0800 Dave Fifield <fifield@pacbell.net> writes:

>The Red Hot Radio "Red Hot 40" kit is now available.

>Same price as the Red Hot NorCal 20, \$135 - superb

>value for money \*and\* high performance all in one!

>

>Details on the Red Hot Radio website at:

>

><http://www.redhotradio.com>

>

>72, Dave Fifield, AD6A

>

>

-----  
Get the Internet just the way you want it.  
Free software, free e-mail, and free Internet access for a month!  
Try Juno Web: <http://dl.www.juno.com/dynoget/tagj>.  
-----

Date: Thu, 04 Nov 1999 11:07:43 -0700  
From: Bruce Kizerian <kizerian@ced.utah.edu>  
To: qrp-1@Lehigh.EDU  
Subject: [55174] ELMER100:"Free" ElmeRadio  
Message-ID: <3821CB6F.B65237C6@ced.utah.edu>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

I am doing my best to finish up the ElmeRadio AM Regen kit instructions and could use a bit of help. So, I am offering an ElmeRadio kit to up to three individuals who can provide me with brief, BASIC definitions to the following words. Remember, you are trying to explain a concept to a 10 year old. It doesn't have to include a discussion of molecular theory or quantum mechanics--just a few sentences putting the beginner on the right track to a better understanding of the concept. If you don't have explanations for all the words, send what you have. Your efforts will be rewarded.

Here are the words: Electricity, Voltage, Direct Current, Alternating Current, Frequency, Oscillator, Amplitude Modulation, Resistor, Capacitor, Inductor, Resonance, Diode, Transistor, Amplifier, Feedback.

If I use your definitions you will be compensated with a kit, and credit will be given to you in the manual.

Thanks in advance, and good luck!

Bruce kk7zz

P.S. This isn't as easy as it looks. That's why I am appealing to the smartest bunch of technical guys I know.

-----  
Date: Thu, 4 Nov 1999 18:10:51 -0000  
From: "Steve Sorrell" <ap036@detroit.freenet.org>

To: <w4qo@amsat.org>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [55175] Re: LIST: Topics list online  
Message-ID: <00b301bf26ef\$ef5186c0\$e642b3c7@sorrells>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

We need one more topic: CONFUSED  
de Steve, W8SFF

-----  
Date: Thu, 4 Nov 1999 13:08:48 EST  
From: PDouglas12@aol.com  
To: qrp-l@lehigh.edu  
Subject: [55176] AR QRP 40m Net Results  
Message-ID: <0.2d310456.255325b0@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit

The AR-QRP Net had 6 QNIs last night. A QSO in progress on 7.042 delayed the start of the net. Thereafter, the band conditons were fair, but very noisy. While the net was in progress, a foxhunt "ran by." Boy, did that sound like fun! There must have been a dozen or more QRPers after him sounding like a battalion of crickets.

The net started at 0140Z and ended at 0211Z. The net is a fun place to listen and brush up on CW, even if one does not choose to QNI! Thanks to those who participated! Here are the stations that checked in:

N3BJ	Alan	K2
AE4IC	Bob	K2
N5IJ	Dave	Kenwood
W2XN	Fred	
WA5BDU	Nick	Tuna Tin
AF4PS	Mac	

The AR-QRP Club now has 3 weekly nets and a web page. Non-members are encouraged to check in, so there is NO excuse not to keep in touch! If CW isn't your bag, then check out the QRP SSB net on Saturday mornings!

Winter Net Skeds

Monday Night	3.560	MHz	7:30 PM CST	0130Z
Wednesday Night	7.042	MHz	7:30 PM CST	0130Z

Saturday Morning            7.2725 MHz   8:00 AM CST      1400Z  
Website address:            <http://www.qsl.net/nq5rp/>

The NCS was Bob AB5ZD, using the AR QRP Club call NQ5RP, a Kenwood 450 running 5 watts to a G5RV up about 25 feet in pecan trees from QTH Alexandria LA. Orientation of the ant wire is NNW to SSE.

72,

Bob AB5ZD

----- Headers -----  
Return-Path: <owner-qrp-l@Lehigh.EDU>  
Received: from rly-za02.mx.aol.com (rly-za02.mail.aol.com [172.31.36.98]) by air-za04.mail.aol.com (v62.15) with ESMTP; Thu, 04 Nov 1999 12:12:34 -0500  
Received: from astro.CC.Lehigh.EDU (astro.cc.lehigh.edu [128.180.39.2]) by rly-za02.mx.aol.com (v62.10) with ESMTP; Thu, 04 Nov 1999 12:12:11 -0500  
Received: from localhost ([127.0.0.1]:14086 "HELO astro.CC.Lehigh.EDU") by astro.CC.Lehigh.EDU with SMTP id <77016-31924>; Thu, 4 Nov 1999 12:11:50 -0500  
Received: from nss4.CC.Lehigh.EDU ([128.180.39.1]:35062 "EHLO nss4.cc.lehigh.edu") by astro.CC.Lehigh.EDU with ESMTP id <77014-31927>; Thu, 4 Nov 1999 12:11:26 -0500  
Received: from imo-d10.mx (imo-d10.mx.aol.com [205.188.157.42]) by nss4.cc.lehigh.edu (8.9.3/8.9.3) with ESMTP id MAA64642 for <qrp-l@lehigh.edu>; Thu, 4 Nov 1999 12:11:24 -0500  
Received: from Robsparks@aol.com by imo-d10.mx.aol.com (mail\_out\_v23.6.) id 5HYKrsgQ8\_ (4196) for <qrp-l@lehigh.edu>; Thu, 4 Nov 1999 12:11:11 -0500 (EST)  
Message-Id: <0.4e9b5645.2553182f@aol.com>  
Date: Thu, 4 Nov 1999 12:11:11 EST  
Reply-To: Robsparks@aol.com  
Sender: owner-qrp-l@Lehigh.EDU  
Precedence: bulk  
From: Robsparks@aol.com  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: AR QRP 40m Net Results  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit  
X-To: qrp-l@lehigh.edu  
X-Mailer: Windows AOL sub 41  
X-Orcpt: rfc822;qrp-l@astro.CC.Lehigh.EDU  
X-Listprocessor-Version: 8.1 beta -- ListProcessor(tm) by CREN

-----

Date: Thu, 4 Nov 1999 18:13:40 -0000  
From: "Stephen Farthing" <stephen@stevef.demon.co.uk>  
To: "QRP list" <qgrp@onelist.com>, "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>  
Cc: "Alan Rowe" <arowe@mpc-data.co.uk>, "Jan Verduyn" <verduynj@ecid.cig.mot.com>  
Subject: [55177] QRP2001 team seek PCB designer to help with project, must like beer, cake with apples in it and coffee.  
Message-ID: <001701bf26f0\$94e7f7e0\$7521989e@oemcomputer>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Dear All,

G0BBL (Jan), G7PUB and I are the QRP2001 team. Last year we developed the QRP2000, a transceiver for 1.8 - 30 Mhz based on the KK7B R2/T2 design but with our own design DDS VFO. Those of you who were at Rochdale last year or Dayton FDIM will have seen and heard the rig. Point your browser at [www.stevef.demon.co.uk/qrp2k/qrp2000home.htm](http://www.stevef.demon.co.uk/qrp2k/qrp2000home.htm) for details and to hear how good a single signal phasing DC RX can sound.

Jan decided that we could get better performance by abandoning the R2/T2 boards and designing our own transceiver - logically called the QRP2001. To wet your appetites it uses a Tayloe mixer for better dynamic range, a less expensive DDS option, and a bigger PIC controller for more features and lower component count. Also it has AGC and a variable bandwidth audio filter based on a SCAF. We have a prototype RX which, last night won the top prize at our radio clubs construction competition. We showed it at Rochdalicon this year where George and the gang put it through it's paces.

One of our failings with the QRP2000 was the lack of PCBs for the DDS- PIC Controller board. We scratch built ours using VUCM which made a duplicatable design difficult. The other modules were sourced from Hands Electronics or Kanga US. For the QRP2001 we are determined to do better. However we lack the skills within the team to design and produce the boards. So:-

Wanted one PCB Designer to join our team

Must be able to take our schematics (or netlists) and convert them into beautiful PCB designs. We have in mind quality thru hole plated, solder masked, silk screened PCBs. If you have seen a KK7B R2 board or anything done by NORCAL that is the quality of the end product we would like to have. We reckon on one board for the PIC Controller /DDS and one for the RX/TX/Audio.



Rewards -

Nothing financial unless someone decides to produce kits or take up commercial production of the boards. A possibility we are willing to discuss and Sheldon Hands might be interested in marketing it. Given our experience with the QRP2000 there might not be much of a market. BTW we share development costs.

We get a buzz out of designing and building the rig, writing firmware, and putting it all in the Public Domain for other Hams to build. Also writing the project up for SPRAT and documenting it on the Web site. You could be part of this effort.

If you live near us there is the Sunday evening design meeting in the Somerset Arms with beer. Construction evenings at Jan's place frequently are punctuated by consumption of the best apple cake known to man prepared by Anne, Mrs Jan. If you are somewhere else we will have to figure out commensurate rewards. We reckon that most of the business can be done by EMail so colonials and other nationalities are most welcome. In fact given the limited amount of high tech homebrew in the UK it is probable that most interest will come from Netherlands, Germany and the US of A.

If you are interested please let me know

-----  
Date: Thu, 4 Nov 1999 12:31:51 -0600  
From: "Randy Jouett" <rules@bellsouth.net>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [55178] ELMER100: Ham Radio Horizons Magazine  
Message-ID: <045401bf26f2\$fc297620\$aae83cd0@spock>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="Windows-1252"  
Content-Transfer-Encoding: 7bit

Gang,

When I was a kid, there was a magazine called "Ham Radio Horizons" that was put out by Jim Fisk, W1HR. Anywho, it was, basically, a ham magazine for kids and for people that wanted to learn the basics of electronics as applied to ham radio. It had tons of information for the beginning ham, and it answered the vast majority of questions a beginner might ask.

The guys that wrote for this magazine were some of the same guys that wrote for Ham Radio Magazine, which was a technical ham rag like QEX. Bill Orr, W6SAI, and other notable, high-tech hams were frequent contributors to HHR. They explained electronics and ham-related topics in a clear, concise, and verbose manner, leaving nothing or little to guess about, holding the hands of its neophyte RF-designer and builder readership in all respects.

Anyway, with the Novice and Technician class license being so popular these days and, most importantly, the days coming, I was wondering if it was about time to do a magazine like this again? Maybe we could talk one of the current amateur publications into doing something like this? If not, maybe one of the current QRP publications could pick up the gauntlet and do a service to the community (ham-radio newbies) that is pretty much being ignored?

About the only place that you can find this kind of information is on QRP-L -- which is GREAT! -- but I think that an entire magazine devoted to beginning concepts (such as the Elmer Project, for instance) needs to see the light of day again, and then maybe we'd see more hams capable of designing rigs and participating in the 1V contest. Remember that Doug Demaw mainly wrote articles for the beginning amateur, explaining sometimes-difficult subject matter with a well-honed writing style that has not been duplicated to this day, IMHO, although Paul Harden does a DAMN good job and out does him in a lot of respects! I don't think that Doug could draw as well as Paul does, for instance, and this ability proves that he is a multi-faceted individual, using both hemispheres of his brain equally (left for verbal communications and analysis [read: English, Math, and Physics], and right for structured visualization [3D drawing] and abstraction [brain-storming ideas and conceptual thinking]). I bet you are surprised that I wrote those last few lines. I respect Paul, but lets just say that we don't see eye to eye on certain topics :^).

IMHO, its about time to take up our swords, storm the castle, and see to it that the newbies are being taken care of, folks. If you look at QRP-L, you'll notice that the S/N ratio has increased lately, and this probably has a lot to do with the fact that the majority of people on QRP-L are here to learn rather than teach, yet they want to feel that they have something to offer and post on subjects that they know about, which is DX, operating, or other subject that some would consider to be off topic. These postings give them the feeling that they are contributing to the whole and giving back to the community that serves them, letting them feel like that are participating as a full-fledged member of the group, and, hopefully, giving something useful back to the whole. COOL!! GOOD FOR THEM!! They SHOULD do this!! Unfortunately, some here feel that this is noise and should be filtered. So be it.

What this also tells us, however, is that there is a need for technical information directed at the beginner in the written form, where people are paid for dishing out their vast amount of knowledge and given just compensation for their time and efforts. What this says to me/us is that there is a desperate need for a magazine which is devoted to the beginning amateur -- one that will fulfill their curiosity and might even add to the list of people capable of competing in the 1V contest. It's about time we did something about this or try to see if something can be done.

Getting off my soapbox, and, hopefully, helping newbies build one that they can stand on in the future :^).

72/73,

----

Randy Jouett, AB5NI

Lafayette, LA., Piney Point, TX. (village surrounded by Houston),  
and Destin, FLA.

P.S.

Been busy, guys, and I have TONS of messages (800 plus) to read through. I'll answer your e-mails when I come across them while I'm saving and deleting messages. Some responses will more than likely require homework, so be patient :^).

-----  
Date: Thu, 04 Nov 1999 10:20:02 -0700  
From: tom whalen <wb5qyt@eFortress.com>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [55179] Trade  
Message-ID: <3821C042.3C64@eFortress.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Gang,

I have a 117v coax T/R switch that I would like to trade for a 12v version. Looks like it has never been used.

Thanks, Tom WB5QYT...."Have spud will travel!"

-----

Date: Thu, 04 Nov 1999 13:06:39 -0600  
From: Dave Sjolín <sjolin@swbell.net>  
To: rules@bellsouth.net, Qrp-l Reflector <qrp-l@Lehigh.EDU>  
Subject: [55180] Re: ELMER100: Ham Radio Horizons Magazine  
Message-ID: <3821D93F.88B53482@swbell.net>  
MIME-version: 1.0  
Content-type: text/plain; charset=us-ascii  
Content-transfer-encoding: 7bit

Randy Jouett wrote:

>  
> Anyway, with the Novice and Technician class license being  
> so popular these days and, most importantly, the days coming,  
> I was wondering if it was about time to do a magazine like this again?  
> Maybe we could talk one of the current amateur publications into  
> doing something like this? If not, maybe one of the current QRP  
> publications could pick up the gauntlet and do a service to the  
> community (ham-radio newbies) that is pretty much being ignored?

Randy,

The number of hams with a Novice license is sharply lower than in past and is one of the reasons that there is so little interest in HF operating among new hams. If they are never shown anything except a station on a belt, they will never know the thrill of working dx, etc.

FYI, there is a publication today which closely resembles the old Ham Radio Horizons in content. It's CQ VHF. Two similar mags devoted to new ops (Ham Radio Horizons and Amateur Radio Today) both died for lack of interest and that was prior to codeless entry into ham radio.

So perhaps some type of online publication would be best way of reaching these new hams today.

73 de Dave, N0IT

-----

Date: Thu, 4 Nov 1999 14:30:14 +0000  
From: "Steven Weber" <kd1jv@moose.ncia.net>  
To: kizerian@ced.utah.edu  
Cc: qrp-l@lehigh.edu  
Subject: [55181] Re: ELMER100:"Free" ElmeRadio  
Message-ID: <199911041910.0AA14508@moose.ncia.net>  
MIME-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7BIT

> Here are the words: Electricity, Voltage, Direct Current,  
> Alternating Current, Frequency, Oscillator, Amplitude  
> Modulation, Resistor, Capacitor, Inductor, Resonance, Diode,  
> Transistor, Amplifier, Feedback.  
>

I would use the water analogies.

i.e., a battery is like a tank of water. ( voltage potential)

Current is a flow of water from the tank. A resistor is like  
different sized water pipes. A bigger pipe gives more flow than a  
little one. (Resistance and current)

Diodes are like one way gates. Transistors are like valves, they  
control the flow. Modulation is like waves on a pond.

Some of the other terms like inductance, amplification and  
oscillation might be a little harder to express in terms of fluids,  
but once they get the basic idea, it might make sense.

This 1V challenge is like having a little pail of water with a  
big hole in the side :-)

72,

Steve, KD1JV in the white Mountains of New Hampshire  
"melt solder"

-----  
Date: Thu, 4 Nov 1999 13:09:55 -0600  
From: "Randy Jouett" <rules@bellsouth.net>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [55182] LC Phasing, Auto-Tuning, and Stepper Motors  
Message-ID: <046401bf26f8\$45619070\$aae83cd0@spock>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="Windows-1252"  
Content-Transfer-Encoding: 7bit

Gang,

I have a bunch of busted 3 and one-half inch floppy drives  
hanging around in the junk box, and I've been thinking about  
putting them to use as in an LC phasing unit and in an automatic  
antenna coupler. I'd like to know if anyone out there has tried  
this...

Basically, I want to rip a stepper motor out of a floppy drive, and then I want to tie the thing to an SWR-bridge circuit, having it tune the capacitor and remember the position, using a PIC chip for control and position storage, giving me (hopefully) a poor-mans, automatic antenna tuner. After that, I'd like to do the same thing and build an automatic LC phaser, which would monitor S-Meter readings and adjust for maximum signal strength, null, or split the difference in an in-phase situation, which could also re-actuate the auto-tuner. Hmmm. How about a combination of the two!?

Anywho, are these things doable? Would it be cheaper than purchasing one of the ready-made auto-turners? Has anyone done this already, and am I just wasting time and effort? If they are doable, is there anyone out there that would like to help me with this project or give me a hand (when needed)? This could probably be seen as re-inventing the wheel and a waist of time, but I'd like to look at it as a learning experience (if they can be done). Also, these projects would put some shack junk to use, and that's always a good thing, in my book :^).

Whatcha' think?

72/73,

----

Randy Jouett, AB5NI

Lafayette, LA., Houston, TX, and Destin, FLA. (Currently in Cajun Land :^) ).

-----

Date: Thu, 04 Nov 1999 14:16:42 -0500

From: "Robert W. Shaw" <lycott@fox.nstn.ca>

To: qrp-l@lehigh.edu

Subject: [55183] HELP: on output impedance of 1 v. oscillator.

Message-ID: <3.0.5.32.19991104141642.00839b10@fox.nstn.ca>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

I have placed a .bmp of a proposed oscillator for 1.2 v operation at <http://fox.nstn.ca/~lycott/OSC1V.bmp>. I would appreciate any comments on the circuit, but in particular, can anyone tell me how to estimate, calculate or measure the output impedance of this circuit?

The output tuned circuit will be a toroid and the link turns ratio has not been determined. I want about 50 ohms to work into a double balanced mixer

for a small DSB transmitter.

Thank you in advance.

72 de Bob VE3SUY

-----  
Date: Thu, 4 Nov 1999 14:18:07 EST  
From: GUARDM@aol.com  
To: qrp-l@lehigh.edu  
Subject: [55184] newbie power supply question  
Message-ID: <0.83bf956a.255335ef@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit

Hello All,

I'm a newbie to the QRP group and have a few questions. I have a Radio Shack HTX-202 that can run from an optional wall wart cat no. 273-1653B 12v out 1Amp. This is a regulated supply...I think. Can this be used to run a QRP rig? Would it need any mods? I plan on building a Norcal40A or SST (I backpack) and was wondering if this supply would be adequate. Also where can I find a home brew plans or hints for putting together a small SWR bridge. Thanks to the group,  
Mev KG9NF  
Madison WI

-----  
Date: Thu, 4 Nov 1999 11:20:29 -0800  
From: Mike Gipe <mgipe@reliablemeters.com>  
To: we6w@qsl.net, Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [55185] RE: Chronicle du jour  
Message-ID: <F988E2FF74F4D111A61F00A0C949D7A90BBA3B@mission>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="windows-1252"

Ed WE6W wrote:

> The pattern is: QRS to 18 WPM; call late; call on frequency.

Yep, Ed found the pattern before I did. And I heard him pull off a marvelous example of exquisite timing.

It took me a couple more rounds to figure out that 20 Hz high wasn't going

to do it. I had to be dead on zero beat, and completely in the clear. As soon as I figured that out, I had a nice pelt to warm up with.

Mike K1MG

-----  
Date: Thu, 4 Nov 1999 14:48:06 -0500  
From: "Scott, Gary" <gary.scott@bellhowell.infolearning.com>  
To: "'qrp-1@Lehigh.EDU'" <qrp-1@Lehigh.EDU>  
Subject: [55186] PICS:  
Message-ID: <ACB991DAAFC9D011B0A700805FC1AF1804D50F52@zeeb-nt01.umi.bhowell.com>  
MIME-Version: 1.0  
Content-Type: text/plain

> Bell & Howell Information and Learning (formerly UMI)  
> Gary Scott  
> Supervisor of Electronic Technical Support  
> Phone: 1-800-889-3358 ext: 2385  
> Fax: 1-734-662-4554  
> Email: Gary.scott@bellhowell.infolearning.com  
>  
>

-----  
Date: Thu, 04 Nov 1999 11:22:57 -0700  
From: tom whalen <wb5qyt@eFortress.com>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [55187] RE: Newbie pwr supply  
Message-ID: <3821CF01.6667@eFortress.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Gang,

Whoever posted the question about power supplies for qrp rigs..TAKE NOTE! I erased your post, but in case you see this give me your address and I will send you a FREE pwr supply kit. All you will have to supply is a little 15 to 20 v transformer and you will have a supply rated at 13v(or your choice) and at one amp! I will even throw in the schematic.

Just got a coffee can full of LM7805's and 1 amp diodes, so am happy to share...My way of saying thanks to all for THEIR help on this list...



72, Tom WB5QYT.."Have spud will travel!"....another Foxless year thanks to my work schedule!

-----  
Date: Thu, 4 Nov 1999 10:14:56 -0700  
From: Gary L Surrency <gsurrency@juno.com>  
To: radman@best.com  
Cc: qrp-1@Lehigh.EDU  
Subject: [55188] Re: solder type ID please  
Message-ID: <19991104.131056.-357687.5.gsurrency@juno.com>  
MIME-Version: 1.0  
Content-Type: text/plain  
Content-Transfer-Encoding: 7bit

I called Kester last year to redeem a coupon for some Soder Wick I got with some solder I bought at Fry's. The person I talked to was extremely helpful and knowledgeable. She sent me 10 rolls each of the two type of desoldering braid for me to evaluate! Talk about customer service!

YMMV. I may have gotten reeeaaalll lucky, or she just liked me! Dunno. 8^)

And that after I asked where I could buy Ersin Multicore, since I still like it best!!!!!!

73,

Gary Surrency AB7MY QRP-L #571 Chandler, AZ (near Phoenix)

-----  
Get the Internet just the way you want it.  
Free software, free e-mail, and free Internet access for a month!  
Try Juno Web: <http://dl.www.juno.com/dynoget/tagj>.

-----  
Date: Thu, 4 Nov 1999 13:10:56 -0700  
From: Gary L Surrency <gsurrency@juno.com>  
To: k7gt@arrl.net  
Cc: qrp-1@Lehigh.EDU  
Subject: [55189] Re: XCVR: NC40A mods (long)  
Message-ID: <19991104.131056.-357687.7.gsurrency@juno.com>  
MIME-Version: 1.0  
Content-Type: text/plain  
Content-Transfer-Encoding: 7bit

Allan & c,

The most increase in power I got with my Wilderness NC40A, was when I redid the PA low-pass filter (LPF). The original LPF is set up to operate with a higher collector load impedance for the PA operating at only 2 watts. The PA needs to see a load of about 19 ohms at 13.8V and 5 watts.

\*Equation 1, approximation of RF PA operating load impedance:

$$[ R_{\text{collector}} = (V_{\text{cc}} * V_{\text{cc}}) / 2 * P_{\text{out}} ]$$

or,

$$R_{\text{collector}} = (13.8 * 13.8) / 2 * 5$$

$$R_{\text{collector}} = 19.044 \text{ ohms}$$

If you operate strictly from batteries, then an even lower collector load impedance is necessary to get the PA to "work" hard enough to develop 5 watts.

$$R_{\text{collector}} = (12.6 * 12.6) / 2 * 5$$

$$R_{\text{collector}} = 15.876 \text{ ohms}$$

As the original NC40A is set up for operation at 2 watts, we get:

$$R_{\text{collector}} = (13.8 * 13.8) / 2 * 2$$

$$R_{\text{collector}} = 47.6 \text{ ohms}$$

Or, for operation at 12.6 volts:

$$R_{\text{collector}} = 12.6 * 12.6 / 2 * 2$$

$$R_{\text{collector}} = 39.7 \text{ ohms}$$

Get out your MFJ-259B or other antenna analyzer, and hook it up to the antenna BNC jack. Leave the power off to the NC40A, and place a 39 to 47 ohm (or 51 ohm) resistor across the PA C and E leads. Tune to 7.040 MHz or so, and measure the SWR, resistance, and reactance. Observe what frequency the match is best. This is how the LPF was originally designed to operate.

As you can see, the original LPF was designed for an input and output of approx. the same impedance, or 47-50 ohms. We can modify it so that the input impedance is lower than the output impedance, and thus force the PA

to work harder. This could also be done with a tapped PA collector choke or transformer. But the PCB layout does not lend itself well to that type of mod, and simply changing the LPF is easier and less damaging than hacking up the PCB.

Change the LPF filter components to what I used:

Original Filter	New Filter
C45 330pf	470pf
L7 18 turns on a T37-2	16 turns on a T37-2
C46 820	820pf (same cap)
L8 18 turns on a T37-2	19 turns on a T37-2 (or, 18 tightly wound)
C47 330 pf	470pf

Note: I used all ceramic caps and still got good results. Silver Mica caps have low loss, and may gain you a db or so of output. NPO's are about as good and cost less. The most important thing is to get a good match from the input to the output.

Now put a 15 to 19 ohm resistor ( use two 39 ohm resistors in parallel, or 39 + 33 ) across the C and E leads of the PA. Again use the antenna analyzer to read the match. Small adjustments to the inductor winding spacings should bring the antenna side match very close to an SWR of 1:1, 49-50 ohms resistance, and zero reactance. A perfect match is possible - but not absolutely necessary - as little difference in RF output will be seen when the match gets close. But try to eliminate the reactance value as much as possible, and center the filter on the desired operating frequency.

The new LPF is now set up correctly for 5 watt operation at 13.8 volts (or whatever other supply voltage and power level you choose with the appropriate equation values).

I retained the original 18uH solenoidal choke at RFC1 in the PA collector, as some experiments proved it was just adequate. It barely gets warm at 5 watts output.

BE SURE TO REMOVE THE ANTENNA ANALYZER BEFORE CONNECTING THE DC POWER AND TRANSMITTING!!!!

Changing Q6 to a J310 will help if the PA drive is low, as does the change of Q6 to a MPS2222A or another, better 2N2222A. Try several different devices and pick the "hottest" ones. Even some good quality 2N3904's will work for Q6.

A 220 ohm pot at R13 is a better choice than the original 500 ohm one, and aids in setting the output level more easily. You could reduce R12 a bit from 20 to 10-15 ohms too, but I did not need to.

If the output will still not reach 5 watts, you might have low VFO output. Changing the J309 in the VFO oscillator might help this, as we found out in some NC20 kits. You might even try a J310 there, but I have not tried that and I do not know what effects the J310 might have on the drift, since it will run hotter with its lower channel resistance ( less R\_ds\_ON). The J310 I tried did reduce the VFO tuning range some.

As a last resort, you can increase the size of capacitor C31 from 5 pf to 6-10 pf. Do not increase the size of this cap very much, as spurious output may increase with excessive VFO drive into the NE602. Without a spectrum analyzer or high quality oscilloscope to look at the signal, it is risky to increase C31 much above 10-15 pf. These mixers do not like too much signal into their inputs. I used a 10 pf for C31 in mine, and left the J309 in the VFO alone, as a J310 reduced the VFO range too much to suit me. I did pick the highest output J309 I had for Q6, however. ;-)

The increase power level from the transmitter into the receiver input, where the RF-derived sidetone is developed, may be reduced by trying another 2N4124A at Q1, and/or insuring that the AGC threshold is set correctly and Q2-Q3 and their associated components are working properly. My sidetone is not loud or distorted at 5w. I still have the 8.2 M resistor at R4.

With the PA LPF properly adjusted, there is no need to change the zener diode at D12, since the lower PA collector load impedance prevents the peak collector voltage from exceeding the original zener's voltage rating. It should not get warm, and the lower voltage helps protect the PA device better on brief antenna mismatches. But it will not save the PA from bad loads at full output. Be warned, as I have been there and done that, as Chuck says. Use an antenna analyzer to pre-set the antenna tuner, or something like the ZM-2 that has a built-in resistive SWR bridge for some degree of protection during tune ups. Can't say enough good things about the ZM-2!

With all these "blueprinting" mods done to my NC40A, I can actually reach 6 watts with a 14.0v DC supply. Since the MRF237 (or the 2N3924 I use) in the PA is rather small, play it safe and stay at 5 watts or below. Avoid long keydown periods, and heat sink the PA well by putting the MRF237 under the PCB with its case (at ground potential) thermally greased and pressed against the bottom cover. Or, put a \*large\* TO-5 heat sink on the PA mounted conventionally on the top of the PCB, such as the NTE401. Tip: bring along a spare PA transistor on camping trips and use IC socket pins for a quick-change PA.

Some of these mods have appeared here on the QRP-L before, in my postings about lowpass filters and the SWL series. The DL-QRP PA module is another option. But these mods require the least modifications to the NC40A, and they can all be un-done with no lasting damage to the original design, should you want to sell the NC40A later.

I chose to not incorporate another larger case style PA device such as the MRF476 in a TO-220 package, as I did not like the mechanics of different mounting and heat sink options. 5 watts is about all you can expect of a PA in a TO-39 or TO-5 package. The rig's PA *is* fragile at that power level since the breakdown voltage ratings are low and the case thermal resistance is high. And, the TX stages (U4, Q5, Q6) ahead of the PA are not suitable for much greater drive to any single PA device. In other words, these mods produce about the best compromise of power output and least circuit changes, given the original, excellent design. More power would also tend to upset the RX too much without re-designing the T/R circuit.

PA devices designed for operation at 13.8 volts *are* more efficient than ones designed for operation at 28 volts in this application. But they are also more fragile, and easier to destroy with high SWR. The 2N3553 is a pretty good device, if your NC40A has one. The 2SC799 is not as rugged, and will not go much more than 3-4 watts without expiring. The MRF237 and 2N3924 are best in this rig, but are getting harder and more expensive to find. Push-pull PA designs are more complex and not nearly as current efficient as the single class C PA stage used in this and most QRP rigs.

Sorry for the bandwidth, but maybe this info will help you and others that like the NC40 and just want more output for tough conditions or poor (not mismatched) antennas. Mine works well, and has been tweaked about as far as it will go! :-)

\*Reference: Solid State Design for the Radio Amateur, Copyright 1986 by ARRL, page 61.

73,

Gary Surrency AB7MY QRP-L #571 Chandler, AZ (near Phoenix)

-----  
Get the Internet just the way you want it.

Free software, free e-mail, and free Internet access for a month!

Try Juno Web: <http://dl.www.juno.com/dynoget/tagj>.

-----  
Date: Thu, 4 Nov 1999 20:23:12 -0000

From: "Stephen Farthing" <[stephen@stevef.demon.co.uk](mailto:stephen@stevef.demon.co.uk)>

To: "GQRP list" <qgrp@onelist.com>, "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>  
Cc: <frank@g3ycc.karoo.co.uk>, "Dave Barrett" <DBarrett@creo.com>, "Tex" <tex@pawns.demon.co.uk>  
Subject: [55190] QRP2000 web site URL correction  
Message-ID: <006901bf2702\$b6642ee0\$7521989e@oemcomputer>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Guys,

        I got the URL wrong. It should be :-  
<http://www.stevef.demon.co.uk/qrp2k/qrp2000home.htm>. Thanks for the 6 or so  
messages I got within an hour to correct it.

Steve

-----  
Date: Thu, 04 Nov 1999 11:56:55 -0700  
From: tom whalen <wb5qyt@eFortress.com>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [55191] Solder wick info  
Message-ID: <3821D6F7.426C@eFortress.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Gang,

Having bought some RS solder wick and not being to impressed with it, I  
decided to make it better. I just bought a can of solder flux, took the  
braid out and finger coated the wick , and then just placed it back in  
the holder. A little messy, but you ought to see it suck out that solder  
now!

72, Tom WB5QYT..."Have spud will travel!"

-----  
Date: Thu, 04 Nov 1999 13:47:13 MST  
From: "Jerry McCollom WOMC" <w0mc@hotmail.com>  
To: qrp-1@lehigh.edu  
Subject: [55192] FOX: <Drum roll> The FOX Log!  
Message-ID: <19991104204713.31587.qmail@hotmail.com>  
Mime-Version: 1.0

Content-Type: text/plain; format=flowed

Hello hounds,

Well, the foxhunt was the cap to a big day. I just accepted a job at our company's new spinoff company earlier in the day and started taking care of all the details of changing jobs, when I received a visit from QRP friend/coworker Rod N0RC scolding me for not posting my FOX announcement! So, announcement posted, I finished the day, got home to inhale some food, and quickly went down to re-calibrate the PLL on my K2 and be sure it was ready for the hunt! (Just put in the new firmware the day before).

So, it's 0159 (exactly -- the arctime clock, ya know :-) and I hear people looking for the fox! :-) 0200, I make the call. I was amazed at the response! It sounded like one gigantic carrier :-) I managed to pick out Doc's call first thing, then it was on to the fun of trying to pick out other hounds.

Wow, what a night. This was my first time ever attempting something like this -- and it probably showed! :-) I was able to pull off 52 contacts. It is absolutely amazing how loud the pileup was at times and how tiring (but fun) 2hrs of non-stop CW can be. Below are the results -- I hope I transcribed my log correctly!

Finally, honorable mention goes to Rod N0RC for working me on his Tuna Tin! Is there a multiplier for that? :-)

Well, without further ado, here are the contacts in chronological order:

Operating freq: 7043-ish

Time On: 4 Nov 1999 0200 - 0400

Call	RX	RST	State	Name	Number/Pwr
------	----	-----	-------	------	------------

K0EVZ		579	ND	DOC	861
KI0G	579	C0	BOB		239
W5TB	559	TX	DOC		673
W0RW	599	C0	PAUL		1284
N1LN	559	TX	BRUCE		2049
-----					
N0EA	559	M0	WAYNE		1058
WE6W	559	CA	ED		1068
AB7CE		599	MT	ROY	1494
WE7G	579	UT	WAYNE		481
AF5Z	599	MT	ROY		984
KQ5U	559	TX	TERRY		1603
KI7MN		579	AZ	BOB	271

KI0II	589	CO	RON	928
K1MG 559	CA	MIKE	614	
N4ROA	549	VA	DAN	970
AK7Y 559	AZ	GREG	1693	
N5TW 579	TX	TOM	1474	
WA5BDU	579	AR	NICK	2053
W0AV 55N	MO	GEORGE	1866	
KK5LD	55N	TX	DAN	2052
VE6EWM	559	AB	EARL	1076
N9KW 559	IL	JOHN	1257	
W4UTI	579	AL	KARL	1097
N0RC 599	CO	ROD	1764	TUNA TIN II!
WA8RXI	449	MI	RICK	1368
AA5TA	339	TX	LARRY	1245
KE5TC	559	OK	ROY	1057
K0PC 559	MN	PAT	1964	
N5LU 559	OK	BILL	2009	
AB5UA	559	OK	CLIF	478
W0CH 559	MO	DAVE	618	
KA4BM	579	FL	JIM	4W
NQ7X 559	AZ	FLOYD	343	
N6WG 339	CA	BOB	26	
AB8DF	339	MI	ED	1444
N0DT 559	MO	DAN	1004	
VE5RC	559	SK	BRUCE	886
K1JD 229	RI	JOHN	1945	
W0DC 559	MN	JOHN	367	
W8SFF	559	MI	STEVE	1288
W0JOE	559	MO	JOE	1901
KR0I 339	MO	MAC	1037	
W0RSP	559	SD	ADE	2W
W2PFS	449	NY	HAL	2078
KA4T 449	TX	LARRY	89	
W7ILW	559	AZ	HOWARD	2010
W5JAY	559	AR	JAY	1201
N1TP 559	FL	TOM	1317	
AE2T 229	NY	AL	1664	
W5VBO	559	AZ	BRIAN	404
N7RR 439	WA	BRUCE	1688	
N7MFB	569	WA	BILL	715



I'll have to brush up so I can double the number of contacts next year!

72,  
Jerry  
WOMC

-----  
Get Your Private, Free Email at <http://www.hotmail.com>

-----  
Date: Thu, 4 Nov 1999 12:53:13 -0800 (PST)  
From: Monte Stark <ku7y@dri.edu>  
To: GUARDM@aol.com  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [55193] Re: newbie power supply question  
Message-ID: <Pine.GS0.4.10.9911041250560.11026-1000000@rotor.dri.edu>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Thu, 4 Nov 1999 GUARDM@aol.com wrote:

> Hello All,  
> I'm a newbie to the QRP group and have a few questions. I have a Radio  
> Shack HTX-202 that can run from an optional wall wart cat no. 273-1653B 12v  
> out 1Amp. This is a regulated supply...I think. Can this be used to run a  
> QRP rig? Would it need any mods? I plan on building a Norcal40A or SST (I

Hi MEV,

I use that very one with my NorCal40a all the time from motels. Have  
had many fine QSO's and even grabbed a Fox pelt a couple of years  
ago with it!

Never had any trouble yet....

cul,

73, Ron, SOWP 5545M,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....  
....ku7y@dri.edu....Washoe Lake, Nevada....NRA LIFE....

-----

Date: Thu, 4 Nov 1999 14:57:45 -0600  
From: "Randy Jouett" <rules@bellsouth.net>  
To: <sjolin@swbell.net>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [55194] Re: ELMER100: Ham Radio Horizons Magazine  
Message-ID: <047f01bf2707\$5e928c20\$aae83cd0@spock>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

----- Original Message -----

From: Dave Sjolin <sjolin@swbell.net>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Sent: Thursday, November 04, 1999 1:06 PM  
Subject: Re: ELMER100: Ham Radio Horizons Magazine

Hi, Dave, and thanks for the reply.

> The number of hams with a Novice license is sharply lower than in past  
> and is one of the reasons that there is so little interest in HF  
> operating among new hams.

Too true; however, it is my belief that the majority of these hams would love to get on HF in the future, and the only way this is going to happen is by having an HF magazine devoted to code practice, operating techniques, and concise, verbose, hand-holding explanations of electronics theory.

> If they are never shown anything except a station on a belt,  
> they will never know the thrill of working dx, etc.

Agreed (to some extent), but I like to think better of my fellow man/ham and think that they are curious and wanting enough to spend time bettering themselves, attaining higher goals and status, no matter what the endeavor, Dave. Lets face it: you, I, and others here on QRP-L are techno-geeks and work in that field because we just couldn't stand not knowing how something worked :^). I believe that this insatiable level of curiosity still exists in most individuals, but I could be mistaken :^). With this in mind, and thinking in a pragmatic, benevolent frame of mind, lets just say that there is a large section of the amateur community that has the desire to learn, better themselves, and learn the techniques that will raise them to the highest peaks and levels of ham radio.

> FYI, there is a publication today which closely resembles the old Ham  
> Radio Horizons in content. It's CQ VHF. Two similar mags devoted to new  
> ops (Ham Radio Horizons and Amateur Radio Today) both died for lack of  
> interest and that was prior to codeless entry into ham radio.

> So perhaps some type of online publication would be best way  
> of reaching these new hams today.

Cool! It's understandable, though, because the ARRL and FCC worked out a way to get more people into ham radio at the beginner level who would normally have not been amateurs. What this means is that we have more beginners, and I would think that the vast majority of them would want to rise through the ranks and get everything they could out of ham radio. I don't know if CQ VHF is teaching HF techniques, HF electronics and operating practices, but with a name that has VHF in it, I wouldn't think so. Hopefully, I'm wrong about this! Now, if they were teaching electronic, VHF construction techniques, then we'd see some hams looking at HF circuits and saying, "Child's play!" :^).

[ My RF Elmer is trying to convince me to go VHF construction, where he says the REAL gentlemen and electronic gurus hang out :^). I told him, "Hmmm -- I doubt this, but I guess I'll just have to get some VHF gear and see what gives," but after hanging around here on QRP-L, rec.radio.amateur.homebrew, and the homebrew e-mail reflectors, I have to say that he's full of it. He's from the old school and doesn't have net access (yet), BTW :^).

HRR and Amateur Radio Today failed because, at that time, most amateurs were beyond those skills, IMHO. We were mainly into building circuits that we found in 73 and QST, trading operating techniques and ideas over the air, and photocopying info and mailing it to each other. That was our main medium for transferring information.

These days we have the net, of course, and I can understand why you, many others, and I would love to see neophyte information like this take place on the web. It might work, but people putting out this kind of effort would want to be financially compensated, and (these days) that means a paper publication, I would think. Also, putting the info on a web page would require one or two individuals doing a tremendous amount of work, and, therefore, making them a weak link in the chain because of demands on their time and no financial compensation, unless they decided to make it a for-profit organization and did this for a living. So, in effect, you'd have something good that stuck around for a while, but it would fade from existence because of physical and mental demands with little or no rewards. This can and will change in the not-to-distant future, though, and I'm sure that we can all see that this will be changing soon (hopefully).

I still have all my copies of HHR, BTW, and you couldn't get them from my dying hands, even if you were using a super-duper, atomic-powered crane :^). BTW, if anyone wants their HHR magazines to find a good home, please let me know! Mine are getting dog-eared and ragged from too much use :^).

Thanks for your comments, Dave, and be seeing ya!

72/73,

----

Randy Jouett, AB5NI  
Lafayette, LA.

659 message to go...WEEEE! :^)

-----  
Date: Thu, 04 Nov 1999 13:13:08 -0800  
From: Ed Loranger <we6w@qsl.net>  
To: qrp-l@lehigh.edu  
Subject: [55195] Solder wick info  
Message-ID: <3821F6E4.7CE5@qsl.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Sucks the solder out of where? Oh, I see.

>From when one makes mistakes.

Never heard of it.....

Or at least that is how my cat acts when she falls off the window sill -- "I meant to do that!"

ObQRP: Actually the best use I have found for Solder wick is when re-soldering a bad joint in a inherited project. My own snafus on plated-thru boards are best with the ESD save solda-pullit.

Oh, and if you hae a plated hole that is too tight, I heard someone could use a fine drill, but having been the pad and trace repair tech at one time, it is a lot easier and safer to file down the part lead! Repairing traces and pads correctly should include a mechanical

AND electrical connection or you get a Manhattan Style type of problem where you heat it up and the bridging wire moves. My preference is to drill smaller holes and place the buss wire into them and bridge trace cuts. For pads, small pads with feedthru bushings are available. I have used wire connectors thru the hole and even outside the hole.

Hmmm... How'd I get onto board repair.... Did I tell you about the Ohio computer show where a Optical Character Reading system arrived and the motherboard was sheared off and the OCR fax reading modem was broken in half!

YUP! Got it running with wires, solder jumps on wires, and melted plastic in place of the stand-offs! Not to mention a new fan borrowed from another show booth.

After that everyone wanted to borrow my tool box! "What else does Ed have in there?" I did make a list once for the "Standard" field service kit but the best kit to have is not sold.

It is YOU and your ingenuity! And Tom just shared some. Good job Tom! Keep that train on the tracks old boy and catch you on the air /RRM!  
72/Ed we6w

--

-72/Ed WE6W; AR Millennium Q's=> 1941/2000 A-1 OP  
<http://www.qsl.net/we6w> Santa Rosa, CA  
QRP-Z#106 AR#112 HI-QRP#64 ARCI#9397 ARS#275 QRP-L#1068 Old NC#2227

-----  
Date: 4 Nov 1999 15:25:48 LOC  
From: <SFIKE@twa.com>  
To: <qrp-l@lehigh.edu>  
Subject: [55196] Xtal-set radio  
Message-ID: <19991104.152548.SFIKE@twa.com>

Thanks for all the replies about the crystal radio question. I sure hated to post it because it made me seem like an idiot, but if it helps to convert my friend into a ham then it was well worth the humiliation!  
Thanks again!  
72,  
Scott,KC0BUS

-----  
Date: Thu, 4 Nov 1999 15:28:08 -0600  
From: "Kevin Muenzler WB5RUE" <wb5rue@stic.net>  
To: <wb5qyt@eFortress.com>, "'Low Power Amateur Radio Discussion'" <qrp-1@Lehigh.EDU>  
Subject: [55197] RE: Solder wick info  
Message-ID: <000001bf270b\$7e1d82d0\$ef5d6f81@uthscsa.edu>  
MIME-Version: 1.0  
Content-Type: text/plain;  
          charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Sounds like you and I had the same elmer... My elmer used to make "solder wick" out of RG-58 braid and canned flux. He would heat the flux in a small can until it melted. Then he would soak the braid for a few minutes. He'd pull it out of the melted (molten hot!) flux, stretch it out until it cooled and WHAMMO! Solder wick. That stuff would suck the solder from the board next to you if you weren't careful!

73/  
Kevin, WB5RUE

"Tater Tom" wrote:

> Gang,  
>  
> Having bought some RS solder wick and not being to impressed  
> with it, I  
> decided to make it better. I just bought a can of solder  
> flux, took the  
> braid out and finger coated the wick , and then just placed it back in  
> the holder. A little messy, but you ought to see it suck out  
> that solder  
> now!  
>  
> 72, Tom WB5QYT..."Have spud will travel!"  
>

-----  
Date: Fri, 05 Nov 1999 08:20:20 +1100  
From: "Ian C. Purdie VK2TIP" <ianpurdie@integritynet.com.au>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Subject: [55198] Re: ELMER100: Ham Radio Horizons Magazine  
Message-ID: <3821F894.AF96FCC3@integritynet.com.au>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Randy Jouett wrote:

> Gang,  
>  
> When I was a kid, there was a magazine called "Ham Radio  
> Horizons" that was put out by Jim Fisk, W1HR. Anywho, it  
> was, basically, a ham magazine for kids and for people that  
> wanted to learn the basics of electronics as applied to ham  
> radio. It had tons of information for the beginning ham, and it  
> answered the vast majority of questions a beginner might ask.

Most people on the list know I run an "Amateur Radio Tutorial Page". I wondered for a while about asking for contributors (properly credited etc.) I feel quite strongly about providing on line education. (putting something back into the community).

So look the pages over and, if you feel you can write for the newcomer, can de-mystify the "black art" bits, can fill in all the holes I've left then send me an outline of what you have in mind.

There have been a lot of fine posts in recent days. See if we expand on the themes

73's

Ian Purdie  
VK2TIP "I'll give you the TIP mate"  
QRP-L member #1978.  
URL - <http://www.integritynet.com.au/~purdic/>  
URL - <http://www.qsl.net/vk2tip/>

-----  
Date: Thu, 4 Nov 1999 17:08:29 +0000  
From: "Steven Weber" <kd1jv@moose.ncia.net>  
To: qrp-l@lehigh.edu  
Subject: [55199] HB: 1 V challenge  
Message-ID: <199911042149.QAA20881@moose.ncia.net>  
MIME-Version: 1.0

Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7BIT

WOW, I'm up to 600 mw output on 80M using a single "D" cell !

A day or two ago, I would have never belived it possible to get this much power. Should have never questioned Wayne's off-the-cuff estimate at what could be done. Think mosfets, lots and lots of mosfets...

Only 400 mw to go, but at this point, every extra mw is going to be a struggle. As it is, the voltage from the battery drops from 1.52 to 1.40 volts under load. Even using 1/4" wide braid soldered directly to the battery to make the power connections. Might have to go to several cells in parallel, with 1/2" wide copper buss bar welded to the terminals :-). At the currents need for high RF power out, small resistances produce noticable voltage drops and a loss of a few tenths of a volt makes quite a difference in power out.

Last night when I was only getting 400 mw out, I tried 3 volts and got an amazing 2 watts out! That was with just four 2N7000's. Now I got eight. Wonder what it would do at 3V now? I bet it would hit 1 watt out if the voltage at the fets was about 1.7V.

So, there you go, all you low voltage experimenters, I'm hoping someone can get all the way up to 1 watt. It just maybe possible after all :-)

72,  
Steve, KD1JV in the white Mountains of New Hampshire  
"melt solder"

-----  
Date: Thu, 04 Nov 1999 16:54:30 -0500  
From: Pete Burbank <plburbank@kih.net>  
To: <qrp-1@Lehigh.EDU>  
Subject: [55200] Prop:Thailand.Query  
Message-ID: <3.0.32.19991104164854.00747a58@kih.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Gang es Propagation experts.

I am curious about why it is difficult to QSO with the Northern Pacific Area from the Central U.S.

The bearing from here to Thailand is around 350 degrees so my thoughts are that my signal must overcome some high



absorption areas on that particular path. QRP operation to Europe or VK/ZL from central KY is no problem. Reading about absorption at high latitudes in "LOW BAND DXing" was confusing in that auroral activity has at times enhanced HF signals....at least that's how I read it. I thought the high latitude activity acted like the "D" layer and absorbs signals. Any thoughts would be appreciated.  
73 Pete NV4V

-----  
Date: Thu, 04 Nov 1999 16:54:07 -0500  
From: "Robert W. Shaw" <lycott@fox.nstn.ca>  
To: <qrp-1@lehigh.edu>  
Subject: [55201] re:HELP: on output impedance of 1 v. oscillator.  
Message-ID: <3.0.5.32.19991104165407.0083b850@fox.nstn.ca>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Apparently I can't reference a .bmp file on my website. I'm sorry that the original reference is not reachable.

Please use the URL below to reference the diagram mentioned.

[HTTP://fox.nstn.ca/~lycott/osc1v.html](http://fox.nstn.ca/~lycott/osc1v.html)

Original message was:

I would appreciate any comments on the circuit, but in particular, can anyone tell me how to estimate, calculate or measure the output impedance of this circuit?

The output tuned circuit will be a toroid and the link turns ratio has not been determined. I want about 50 ohms to work into a double balanced mixer for a small DSB transmitter.

Thank you in advance.

72 de Bob VE3SUY

-----  
Date: Thu, 4 Nov 1999 16:59:34 -0500  
From: "Ron Polityka" <wb3aal@talon.net>  
To: ". QRP-L" <qrp-1@Lehigh.EDU>

Subject: [55202] Part Question  
Message-ID: <00a001bf270f\$e1d9c000\$6fe508cf@wb3aal>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Hello,

I did all the usual searches and I can't find this part.  
It is a TRIAC and it's # VF40AF, I have no idea what  
the manufacture is on this part.  
Anyone have an idea?

Thanks in advance for your time and patience.

72 & 73  
Good DXing

Ron Polityka  
de WB3AAL  
wb3aal@talon.net

vvv Eastern Pennsylvania QRP Web Page vvv  
[http://www.kpsnet.com/wb3aal/Start\\_Page.htm](http://www.kpsnet.com/wb3aal/Start_Page.htm)  
Eastern Pennsylvania QRP Club Call --> N3EPA

EPA QRP #1	NJ QRP #179
KL7 QRP # 309	G-QRP # 3031
ARCI QRP # 5318	10 - X #13173
NorCal	Zombie #625
ARS # 380	HI-QRP #153
VA QRP Society	

SETI @ Home Project  
<http://setiathome.ssl.berkeley.edu>

-----  
Date: Thu, 04 Nov 1999 22:00:29 +0000  
From: Tom Palmer <n1tp@worldnet.att.net>  
To: Bcieslak@ra.rockwell.com, QRP-L <qrp-l@Lehigh.EDU>  
Subject: [55203] Re: FOX:I winged em but he got away  
Message-ID: <382201FC.9DCA9350@worldnet.att.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Hi, Brian and the "Gang."

No!!!!. N1TP never snickers at any hound!

Brian is referring to a note I posted a few days ago on QRP-F.

Last evening was TOUGH! I feel very fortunate to have bagged Jerry ... and about 0253 UTC at that! A close call!

Conclusive and indisputable proof just how bad conditions were last nite is the fact that K5ZTY did not bag the FOX!!!!!! And for a short time I clearly heard Bill here in SW Florida.

I assume there are many disappointed hounds "out there."

Band conditions last nite reminded me of last season's hunt with N7CQR in Oregon. I think that was last season's worst conditions.

I note that several of last season's heavy hitters are 4 for 4, including, among others, NQ7X, N4ROA, and K0EVZ. They are dangerous CW QRP ops!!!!!!

Special kudos to AE2T (Al in N.Y.) and K1JD (John in R.I.). From their vantage points I'm sure Jerry was a tiny target last nite.

I won't congratulate N4ROA. He made it look all TOO easy!!!

72/73 to all.

Tom, N1TP, @ beautiful, tropical, Naples, Florida.

"HOUND TO BE" on 2-25-2000.

Collector of "Heddon" "midgit digits" and tiny "Crazy Crawlers."  
Fan of Jiminy Cricket and Elmer Fudd.

P.S. Out of Jerry's 52 QSOs, 5 were "Pesky Texans." For them, a lower than average percentage of the total.

Bcieslak@ra.rockwell.com wrote:

> I thought I heard him call me back but he slipped away in the tall grass of QRN  
> before I could be sure.  
> Rats, the perfect season comes to an end. Now 3 and 1.  
> That's what happens when you get too cockey and think this is too easy. (I can  
> hear N1TP snickering at me)

> Congrats to all you hounds who pulled him out.  
>  
> Brian AE9K

-----  
Date: Thu, 04 Nov 1999 22:01:28 +0000  
From: Tom Palmer <n1tp@worldnet.att.net>  
To: Bcieslak@ra.rockwell.com, QRP-L <qrp-l@Lehigh.EDU>  
Subject: [55204] Re: FOX:I winged em but he got away  
Message-ID: <38220238.E1846B75@worldnet.att.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Hi, Brian and the "Gang."

No!!!!. N1TP never snickers at any hound!

Brian is referring to a note I posted a few days ago on QRP-F.

Last evening was TOUGH! I feel very fortunate to have bagged  
Jerry ... and about 0253 UTC at that! A close call!

Conclusive and indisputable proof just how bad conditions were last nite  
is the fact that K5ZTY did not bag the FOX!!!!!!!!! And for a short time  
I clearly heard Bill here in SW Florida.

I assume there are many disappointed hounds "out there."

Band conditions last nite reminded me of last season's hunt  
with N7CQR in Oregon. I think that was last season's worst conditions.

I note that several of last season's heavy hitters are 4 for 4, including, among  
others, NQ7X, N4ROA, and K0EVZ. They are dangerous CW QRP ops!!!!!!

Special kudos to AE2T (Al in N.Y.) and K1JD (John in R.I.). From their  
vantage points I'm sure Jerry was a tiny target last nite.

I won't congratulate N4ROA. He made it look all TOO easy!!!

72/73 to all.

Tom, N1TP, @ beautiful, tropical, Naples, Florida.

"HOUND TO BE" on 2-25-2000.

Collector of "Heddon" "midgit digits" and tiny "Crazy Crawlers."  
Fan of Jiminy Cricket and Elmer Fudd.

P.S. Out of Jerry's 52 QSOs, 6 were "Pesky Texans." For them,  
a lower than average percentage of the total.

Bcieslak@ra.rockwell.com wrote:

> I thought I heard him call me back but he slipped away in the tall grass of QRN  
> before I could be sure.  
> Rats, the perfect season comes to an end. Now 3 and 1.  
> That's what happens when you get too cockey and think this is too easy. (I can  
> hear N1TP snickering at me)  
> Congrats to all you hounds who pulled him out.  
>  
> Brian AE9K

-----  
Date: Thu, 4 Nov 1999 17:07:02 -0500  
From: "Ed Tanton" <n4xy@att.net>  
To: <wb5qyt@eFortress.com>, "Low Power Amateur Radio Discussion" <qrp-  
l@Lehigh.EDU>  
Subject: [55205] RE: Solder wick info  
Message-ID: <NBBBJDEEIFDDANGEGHLBMEJLHJAA.n4xy@att.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Better yet, get a flux pen, and put it right on the joint. A lot less  
messey.

Also, BEWARE: solder wick tends to remove the plating from plated soldering  
iron tips. Use it carefully, and try not to rub the tip on the braid-just  
press.

72 / 73 Ed N4XY email: <n4xy@arrl.net>

webpage: <http://www.qsl.net/n4xy/>

-----

Date: Thu, 04 Nov 1999 14:08:22 -0800  
From: neil <neil@aaade.com>  
To: wb3aal@talon.net  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [55206] Re: Part Question  
Message-ID: <382203D6.A6B3D6B1@aaade.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

For finding parts I just discovered an really neat free program that searches all the biggy suppliers on the web for a give part and returns a complete list of who has them and data sheets for them.

The program is free for download, called PARTMINER

<http://www.partminer.com>

usual disclaimers

Also have made major update to my links page deleting most bad links and adding a bunch of new ones.

<http://www.aaade.com/links.htm>

--

Neil  
<http://www.aaade.com>  
<mailto:neil@aaade.com>  
Almost All Digital Electronics  
1412 Elm St. SE  
Auburn, WA 98092  
253-351-9316

-----  
Date: Thu, 04 Nov 1999 14:09:49 -0800  
From: Russ Carpenter <russ@natworld.com>  
To: QRP-L List <qrp-l@lehigh.edu>  
Subject: [55207] Results of the NOVEMBER SPARTAN SPRINT  
Message-ID: <B447442B.1824%russ@natworld.com>  
Mime-version: 1.0  
Content-type: text/plain; charset="US-ASCII"  
Content-transfer-encoding: 7bit

The November Spartan Sprint gave us the first chance in a long time to play in the 40 meter sandbox. What a pleasure! Great signals, low noise, and lots

of stations.

This month, we are introducing a new category of "winners" in the Spartan Sprints. Thanks to the wonderful soapbox comments we receive every month, we have some extraordinary stories to tell. Interesting homebrew equipment, milliwatt miracles, outdoor adventures, to name a few. So we are adding a third category of winners, entitled "Remarkable Achievements."

The call of each remarkable achiever will be hyperlinked to his or her story in the Soapbox. So, to get the lowdown on what these men and women have accomplished, hop on over to The ARS Sojourner, at <http://www.natworld.com/ars>. The November issue of the Sojourner went live today. It is replete with fascinating stories and information.

Each contact in the Spartan Sprint received one point. If you didn't tell us the weight of your station, or if your station weighed more than Governor Ventura, we assigned a weight of 30 pounds. To make the table line up correctly, be sure to use a monospaced font in your software.

THE SKINNY DIVISION (results sorted in order of points per pound)

Call	Name	80m	40m	20m	15m	10m	Total Qs	Wt.	Qs/ Pound
W5RXP	Rich	0	0	16	0	0	16	.7	22.86
AA7QU	Russ	0	34	23	0	0	57	5.5	10.36
N7XJ	Bob	0	32	21	2	0	55	5.5	10.00
N0SXX	Gary	0	12	15	0	0	27	3.5	7.71
AA4XX	Paul	0	6	8	0	0	14	1.9	7.37
AA2VX	Mike	0	0	13	0	0	13	2	6.50
WE6W	Ed	0	35	8	0	0	43	7	6.14
K7TQ	Randy	0	8	0	0	0	8	1.42	5.63
K0Y0	Mike	0	0	7	0	0	7	1.25	5.60
KH6B	Dean	0	10	19	2	0	31	6	5.17
WF4I	Derek	2	4	8	0	0	14	2.9	4.83
K1QM	Joel	2	7	5	0	0	14	3	4.67
N3A0	Carter	1	23	0	0	0	24	5.9	4.07
AB0CD	Dick	0	8	0	0	0	8	2.1	3.81
N0IBT	Dave	0	10	10	0	0	20	6.5	3.08
K5NZ	Mike	2	10	6	0	0	18	6.5	2.77
W7SNV	Al	0	2	7	0	0	9	3.7	2.43
AA8PG	Jeff	7	0	0	0	0	7	3.2	2.19
KI0G	Bob	0	0	7	0	0	7	5	1.40
K07X	Alan	0	14	27	0	0	41	30	1.37
AF5Z	Bob	4	18	13	0	0	35	30	1.17
AB7MY	Gary	0	24	1	0	0	25	30	0.83
KD3FG	Jon	0	4	0	0	0	4	5.5	0.73
HP1AC	Cam	0	1	19	0	0	20	30	0.67

K6PZB	John	0	15	3	2	0	20	30	0.67
KA5T	Larry	3	8	3	0	0	14	30	0.47
K6RPN	Doug	0	11	0	0	0	11	30	0.37
KA8LLE	Ben	1	0	8	0	0	9	30	0.30
WA8GHZ	Jack	0	4	3	0	0	7	30	0.23
K4KJP	Terry	0	0	6	0	0	6	30	0.20
AB0GO	David	0	5	0	0	0	5	30	0.17
KI0II	Ron	2	2	0	0	0	4	24	0.17

THE TUBBY DIVISION (results sorted in order of points)

Call	Name	80m	40m	20m	15m	10m	Total
							Qs
AA7QU*	Russ	0	34	23	0	0	57
N7XJ	Bob	0	32	21	2	0	55
WE6W	Ed	0	35	8	0	0	43
K07X	Alan	0	14	27	0	0	41
AF5Z	Bob	4	18	13	0	0	35
KH6B	Dean	0	10	19	2	0	31
N0SXX	Gary	0	12	15	0	0	27
AB7MY	Gary	0	24	1	0	0	25
N3AO	Carter	1	23	0	0	0	24
N0IBT	Dave	0	10	10	0	0	20
HP1AC	Cam	0	1	19	0	0	20
K6PZB	John	0	15	3	2	0	20
K5NZ	Mike	2	10	6	0	0	18
W5RXP	Rich	0	0	16	0	0	16
AA4XX	Paul	0	6	8	0	0	14
KA5T	Larry	3	8	3	0	0	14
K1QM	Joel	2	7	5	0	0	14
WF4I	Derek	2	4	8	0	0	14
AA2VX	Mike	0	0	13	0	0	13
K6RPN	Doug	0	11	0	0	0	11
KA8LLE	Ben	1	0	8	0	0	9
W7SNV	Al	0	2	7	0	0	9
AB0CD	Dick	0	8	0	0	0	8
K7TQ	Randy	0	8	0	0	0	8
WA8GHZ	Jack	0	4	3	0	0	7
K0Y0	Mike	0	0	7	0	0	7
AA8PG	Jeff	7	0	0	0	0	7
KI0G	Bob	0	0	7	0	0	7
K4KJP	Terry	0	0	6	0	0	6
AB0GO	David	0	5	0	0	0	5
KD3FG	Jon	0	4	0	0	0	4
KI0II	Ron	2	2	0	0	0	4

\* Contest Manager not eligible



REMARKABLE ACHIEVEMENTS

Mike, K5NZ  
Paul, AA4XX

Thanks for your support of Adventure Radio Society!

Russ Carpenter, AA7QU  
Contest Manager

-----  
Date: Thu, 4 Nov 1999 17:10:28 -0500  
From: "Ed Tanton" <n4xy@att.net>  
To: <n4xy@att.net>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [55208] RE: Solder wick info-oops  
Message-ID: <NBBBJDEEIFDDANGEGHLBCEJMHJAA.n4xy@att.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

...make that: "...less messy."

72 / 73 Ed N4XY email: <n4xy@arrl.net>

webpage: <http://www.qsl.net/n4xy/>

-----  
Date: Thu, 4 Nov 1999 17:12:38 -0500  
From: Michael <mike\_mhe@compuserve.com>  
To: "DL-QRP-AG, Mails" <dl-qrp-ag@qth.net>  
Cc: "Lehigh, Messages" <qrp-l@Lehigh.EDU>  
Subject: [55209] 12th Homebrew and Oldtime Contest  
Message-ID: <199911041712\_MC2-8BC4-6E94@compuserve.com>  
MIME-Version: 1.0  
Content-Transfer-Encoding: quoted-printable  
Content-Type: text/plain;  
        charset=ISO-8859-1  
Content-Disposition: inline

The QRP-CONTEST-COMMUNITY  
c/o Dr.Hartmut Weber, DJ7ST  
Schlesierweg 13  
D-38228 SALZGITTER  
Germany

The QRP-CONTEST-COMMUNITY (qrpcc) is cordially inviting to the

12th H O M E B R E W & O L D T I M E - E Q U I P M E N T - P A R T Y =

-----

GUESTS : operators of homebrew or more than 25 years old equipment. =  
A homebrew or oldtime TX or RX may be completed by a modern =  
commercial RX or TX ( see Class B )

DATE : 2 1 - N O V - 9 9 (3rd Sunday in November)  
-----

QRG : 1300-1500 UTC : 7010-7040 kHz 1500-1700 UTC : 3510-3560 =  
kHz

MODE : Single OP CW, PA input below 100 watts

CALL : "CQ HOT"

CLASS A : TX a n d RX are homebrew or older than 25 years  
-----

CLASS B : TX o r RX are homebrew or older than 25 years  
-----

CLASS C : QRP-TX below 10 watts input or 5 watts output,  
homebrew or older than 25 years

EXCHANGE: RST, serial No. (starting from 001 on both bands) /Class  
e.g. 579001/A

QSO-POINTS : Class A : with A or C =3D 3 points, with B =3D 2 points  
Class B : with A or C =3D 2 points, with B =3D 1 point  
Class C : with A or C =3D 3 points, with B =3D 2 points  
(No multiplier points)

LOGS: must include a description of the homebrew or oldtime equipme=

nt

used (type, vintage). Please also give a short description  
(about 40 letters) for publication in the result lists.

DEADLINE: Dec 15th to: Dr.Hartmut Weber, DJ7ST, Schlesierweg 13, =

D-38228 SALZGITTER, Germany, or via PR to DJ7ST@DB0ABZ.#NDS.D=  
EU.EU

Please test your Homebrew or Oldtime Equipment timely to avoid a  
'bombshell' during the party (which has happened not only once...,hi).

- - - - -

Here is a proposal for a summary/log sheet:

12th HOMEBREW & OLDTIME - EQUIPMENT - PARTY 21-Nov-1999

-----

Call:..... Class:.....

Name:..... (MyBBS): .....

Street:.....

Zip-Code: ..... City/Place:.....

Equipment: (please describe the homebrew or oldtime components of your  
HOT-Party station by about 40 letters for publication in the result list)=

.....

More details, comments:

.....

Signature:.....

UTC	CALL	Sent RST+No.	Rec RST+No	CLASS	PTS
-----	------	--------------	------------	-------	-----

----	-----	-----	-----	----	----
------	-------	-------	-------	------	------

----	-----	-----	-----	----	----
------	-------	-------	-------	------	------

etc.

If you don't know us yet:

The QRP-Contest-Community (qrpcc) is a supra-national network of qrp enthusiasts (at present 170 promoters from 12 nations) pursuing the organization and promotion of QRP Contests since 1992. The qrpcc may be viewed as a support group taking care of the qrp'ers and homebrewers interests in a self-help manner.

Since 1996 the qrpcc carries out the ORIGINAL-QRP-Contest, designed for genuine QRP gear. The Homebrew & Oldtime-Equipment-Party since 1997 also has been organized by qrpcc very successfully.

The promoters of qrpcc are private persons supporting the idea by personal participation in organizing, log-checking, printing address labels etc. or by contributing to postage costs. Because of its international design qrpcc does not seek any affiliation with national ham radio organizations but is open to any friendly cooperation.

Hpe cuagn in HOT-PARTY!

Best 73 de "Hal", Hartmut, DJ7ST

(mailing done by DF20K)

-----  
Date: Thu, 4 Nov 1999 14:51:22 -0800  
From: "jmb" <jmb@cruzio.com>  
To: "QRP-1" <qrp-1@lehigh.edu>  
Cc: "Wilford D. Lindsey" <70511.3041@compuserve.com>  
Subject: [55210] NT+ Fox -- Sked for next three nites: Tonight (Thursday), Friday and Saturday -- K6JMB  
Message-ID: <00ad01bf2717\$1e503fd0\$e689e3a5@workstation>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I'm the NT+ Fox tonite 0230Z-0430Z and again tomorrow (Friday) and Saturday same times 0230-0430Z. That's three nights running! I must be onea those guys who never knows he's had enough till he's had more than enough!

Anyway c'mon out and track me down. My plan's to start working around 7.110

to 7.115 depending on QRM and band conditions. If things're as quiet as Tuesday nite so far as hounds are concerned, I'll keep moving up and down the band lookin'.

QTH is Santa Cruz, California. Rig's an Elecraft K2 (Ser # 141), running 5 Watts to a homebrew inverted-V up about 25 feet and strung to trees off my upstairs deck. I'm surrounded by tall eucalyptus trees and am at sea level about 1/8 mile away from the ocean, back behind the Santa Cruz Small Craft Harbor. 36 58' 17'' N, 121 59' 12'' W -- Grid: CM96AX. Maybe that helps you "beamers"...?

tnx es 72,  
Jim  
K6JMB

-----  
Jim Boyle  
Santa Cruz, California  
FISTS #6537 QRP-1 #1845

-----  
Date: Thu, 4 Nov 1999 17:57:55 -0500  
From: Stanley A Mcintosh <mcintos@basf-corp.com>  
To: qrp-1@Lehigh.EDU  
Subject: [55211] sub-1V Audio Amp  
Message-ID: <8525681F.007DBC71.00@basf-corp-gw01.basf-corp.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="iso-8859-1"  
Content-Transfer-Encoding: quoted-printable

Last night, I threw together a regulator for the 1-V project. The LED =  
idea was  
great, but I was too tired at that point in the day to be that creative=  
... at  
least that's my excuse and I'm sticking to it. Anyway, a string of 6  
forward-biased 1N4002's worked very well at giving a stable voltage ref=  
erence  
for a 2N3053 pass transistor. The nice thing about a string of diodes =  
is that  
you can easily add or subtract 0.7V. Eventually, I want to replace tha=  
t third  
or fourth diode to allow for hitting 1.0 VDC, instead of over or under--  
shooting  
by 0.3-0.4VDC.  
For those of you that might consider getting a 2N404 from Ocean State, =  
or

wherever, the single transistor audio amp that Paul Harden used in his =  
Q=B2 regen  
article from 1996 requires very little modification to work surprisingl=  
y well,  
even at 0.7V on the emitter (this is a PNP). I had high-impedence phon=  
es  
connected between ground and the collector, a 500k pot between the coll=  
ector and  
the base for playing with bias, and the emitter went to the regulated V=  
+. Low  
impedence phones might be worth a try. With the bias pot resistor at 9=  
0-100k  
resistance, the amp took a barely-audible tone to a painfully loud tone=  
at 1.4  
supply volts, to simulate a worn-down "D" cell.

Over lunch, I moved the alligator clip up one diode in the string for 0=  
.7V  
regulated output. It actually still amplifies, and it actually still a=  
mplifies  
very well. There's apparently enough headroom to make this work with a=  
n  
environmentally-friendly NiCd cell, and you'd only need three solar cel=  
ls for  
charging.

Now, what about a VFO?

72  
stan  
kd4bth  
=

-----  
Date: Thu, 04 Nov 1999 17:06:14 -0600  
From: Dave Sjolín <sjolin@swbell.net>  
To: rules@bellsouth.net  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [55212] Re: ELMER100: Ham Radio Horizons Magazine  
Message-ID: <38221166.46E9C65@swbell.net>  
MIME-version: 1.0  
Content-type: text/plain; charset=us-ascii  
Content-transfer-encoding: 7bit

Randy Jouett wrote:

> Too true; however, it is my belief that the majority of these hams  
> would love to get on HF in the future, and the only way this is  
> going to happen is by having an HF magazine devoted to code practice,  
> operating techniques, and concise, verbose, hand-holding explanations  
> of electronics theory.

In that case I think we are screwed because I don't see another ham  
publication arising to take on the challenge.

> I don't know if CQ VHF  
> is teaching HF techniques, HF electronics and operating practices,  
> but with a name that has VHF in it, I wouldn't think so. Hopefully, I'm  
> wrong about this! Now, if they were teaching electronic, VHF  
> construction techniques, then we'd see some hams looking at HF  
> circuits and saying, "Child's play!" :^).

Seems like each issue of CQ VHF contains an article on basic electronic  
theory, one or two easy construction articles (power supply,  
accessories, etc), articles on propagation (some of it applicable to HF  
because they do cover ten meters and six meters heavily. They have  
covered construction techniques (soldering). They also have articles on  
antennas (and building them) and contesting in addition to articles on  
various aspects of vhf/uhf/microwaves. They generally write at the same  
level as Ham Radio Horizons.

> These days we have the net, of course, and I can understand why you,  
> many others, and I would love to see neophyte information like this take  
> place on the web. It might work, but people putting out this kind of effort  
> would want to be financially compensated, and (these days) that means  
> a paper publication

On the other hand, to pay writers, there has to be a market out there  
large enough to support it. I think you are more likely to find people  
out there willing to write up articles than you are reaching into their  
own pockets to cover cost of printing and distribution.

> I would think. Also, putting the info on a web page  
> would require one or two individuals doing a tremendous amount of work,  
> and, therefore, making them a weak link in the chain because of demands  
> on their time and no financial compensation, unless they decided to make  
> it a for-profit organization and did this for a living.

And here I thought you were volunteering! :-)

Seriously, if we came up with a good list of topics and authors to  
address them, maybe we could get some space on the ARRL web site where  
we could run into a lot of new hams or perhaps just link to their and

perhaps e-ham etc. Much already exists. The big hurdle seems to be organizing it and editing it so it is appropriate for its target audience of relatively new hams. One of the benefits of having it online is that it will enable the reader to ask questions of the author, something that normally doesn't happen that often in written format.

I would be happy to help in this effort. I was first licensed 40 years ago this month and I have a lot to payback for all the enjoyment I have experienced over the years.

73 de Dave, N0IT  
St. Louis

-----  
Date: Thu, 4 Nov 1999 18:20:31 -0500  
From: "Bill Legge, NT1R" <wlegge1@maine.rr.com>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [55213] FS: Mint Atlas 110 transceiver  
Message-ID: <199911042315.SAA10390@proxye2-atm.maine.rr.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=ISO-8859-1  
Content-Transfer-Encoding: 7bit

Hello,  
I have a mint Atlas 110 transceiver available for \$325. plus shipping.  
This is the Special version with rit and cw/ssb filter and internal p/s.  
It's a very nice classic qrp rig. 72 Bill Legge, NT1R in Yarmouth,  
ME  
QRP-L #912

-----  
Date: Thu, 4 Nov 1999 18:29:57 EST  
From: BenNW7DX@aol.com  
To: kd1jv@moose.ncia.net  
Cc: qrp-l@lehigh.edu  
Subject: [55214] Re: ELMER100: "Free" ElmerRadio  
Message-ID: <0.3cabab38.255370f5@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit

I would also recommend the "water" way of explaining electricity/current stuff. This is also the way that the widely used NOW YOUR TALKING book uses.

Ben



NW7DX

> > Here are the words: Electricity, Voltage, Direct Current,  
> > Alternating Current, Frequency, Oscillator, Amplitude  
> > Modulation, Resistor, Capacitor, Inductor, Resonance, Diode,  
> > Transistor, Amplifier, Feedback.  
> >  
>  
> I would use the water analogies.  
>  
> i.e., a battery is like a tank of water. ( voltage potential)  
>  
> Current is a flow of water from the tank. A resistor is like  
> different sized water pipes. A bigger pipe gives more flow than a  
> little one. (Resistance and current)  
>  
> Diodes are like one way gates. Transistors are like valves, they  
> control the flow. Modulation is like waves on a pond.  
>  
> Some of the other terms like inductance, amplification and  
> oscillation might be a little harder to express in terms of fluids,  
> but once they get the basic idea, it might make sense.  
>  
> This 1V challenge is like having a little pail of water with a  
> big hole in the side :-)  
>  
> 72,  
> Steve, KD1JV in the white Mountains of New Hampshire  
> "melt solder"

-----  
Date: Thu, 04 Nov 1999 23:35:05 -0500  
From: Richard Arland <k7sz@epix.net>  
To: QRP List <qrp-l@lehigh.edu>  
Subject: [55215] Power Inverters and Battery Supplies  
Message-ID: <38225E79.48FA2897@epix.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Several months ago I was wandering through the Post Exchange at  
Tobyhanna Army Depot and spotted a battery pack designed to provide  
portable 12 power AND jump start a car (yeah, right!). This was a rather  
large plastic case with built in handle and two jumper cable-type cables

attached, one on either end. The unit was made by the Vector company and was sold as "Pro-Charge 900 Jump Start System". It has a 17 amp/hr gell cell battery inside, a small incandescent lamp on one side (so you can see what you're doing at night while trying to jump start your car), and a meter for monitoring battery level.

I bought the unit, thinking that I would be able to drag it along on camping trips and FD as a power source. The box advertised that a 140 watt power inverter was also sold as an optional extra and that it fit into the back of the unit.

The new Radio Shack.Com (Tech America) catalog came the other day, so I broke down and ordered the \$75 soldering station (need one anyway) and asked the customer service person about their power inverters (thinking that I might find one to mate up with the Pro-Start system). Sure enough, they had about 5 ranging from 150 watts up to about 1200. I opted for the 150 and 350 watt models (RS PN 98-707 & 98-708 respectively). They came in via UPS in a couple of days.

I took the 150 watt model out...a Vector Power Force 150, and darned if it didn't fit right into the slots in the back of the Pro-Start battery box! So now I have a 12 VDC portable power source that can also give me 110 VAC for powering a laptop, small scanner, etc.

The 350 watt power inverter is going to get strapped onto the top of my deep cycle battery case with double sided tape to provide slightly more AC power if needed.

Price for the 150 watt model is \$50 and the 350 watt unit costs 90, incase anyone is interested.

73 Rich K7SZ

-----  
Date: Thu, 4 Nov 1999 16:51:30 -0700  
From: "Carl Zmola" <zmola@campbellsci.com>  
To: qrp-l@lehigh.edu  
Subject: [55216] Sending and Receiving QSL cards.  
Message-ID: <19991104234924390.AAB291@carl-zmola>  
MIME-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7BIT

OK,

When I work US stations I QSL via USMail and getting responses hasn't

been a problem. I'm not a big Wallpaper chaser, but I would like to QSL and Get QSL cards from some DX stations I work.

How do the buerau's work. Foreign ops say QSL via Buerau. (gee my spelling's awful, no wonder I have trouble on CW). How do I do that and what US buerau's are there. I guess I just send a sase to the local beureau.

Since I don't QSL that much, How often do they get back to me?

Helppp.

Carl

Carl  
zmola@campbellsci.com

-----  
Date: Thu, 4 Nov 1999 19:10:08 +0000  
From: "Steven Weber" <kd1jv@moose.ncia.net>  
To: qrp-l@lehigh.edu  
Subject: [55217] HB: 1 V challenge, tricks  
Message-ID: <199911042350.SAA21495@moose.ncia.net>  
MIME-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7BIT

Greetings to the voltage challenged!

In order to get the 2N7000 mosfet PA to work as well as it does, I had to find a way to develop a gate bias voltage of about 2.6 volts. Been keeping that a secret :-)

Although the PA produces some power out with a 1.5 v gate bias, it don't kick butt until the bias is up to the 2.6V level. I found a way to do this without resorting to a DC to DC converter, but it was a gray area in the rules, so I asked Wayne if what I was doing was legal. He said it was, but I should share the idea with the group to keep a level playing field. Since I've been sharing my work so far, I don't have a problem with that.

So, here it is. The PA was producing about 4 v p-p with the 1.5 volts nominally available. I simply tacked on a voltage doubling rectifier to the RF output and fed that voltage back to the gates, with a level control and a way to limit the voltage when full power output comes up. It works very well and reliably. In effect, this a RF to DC converter, so is legal! Plus it gives a way to adjust the power output to some degree.

In the same vain, I asked if we could use some similer approch to develop the voltage need to use a varactor diode, so we could build a tunable VFO. This is also acceptable, provided the DC voltage is developed from an RF oscillator needed for the circuit to operate anyway. Therefore one could use the VFO it's self to generate a varactor tuning voltage. Neat, eh? (If it's a super het, the BFO would be a better source)

I'll sit down soon and draw up some schematics of the transmitter and DC receiver in Circad (DOS ver 3.86) and send them to anyone interestred. Maybe Doug would be willing to post them on the NorCal web page to give people some ideas or a starting point for this wonderfull contest.

Volts away!

72,  
Steve, KD1JV in the white Mountains of New Hampshire  
"melt solder"

-----  
End of QRP-L Digest 1629

\*\*\*\*\*  
-----